```
?ds

Set      Items    Description
S1      122863    XML OR X()M()L OR EXTENSIBLE()(MARKUP OR MARK()UP)
S2        6845    S1 AND SCHEMA?
S3        1445    S2 AND (VALIDAT? OR VALIDITY? OR PARSE?)
S4         614    S1 (S)SCHEMA? (S) (VALIDAT? OR VALIDITY? OR PARSE?)
S5         138    S4 NOT PY>1999
S6          95    S4 NOT PD>19991013
S7         138    S5 OR S6
S8          63    RD (unique items)
S9          31    S8 AND S1(3N)(VALIDATOR? OR PARSER?)
S10         54    S8 AND MICROSOFT
S11         29    S10 NOT S9
?show files
File    9:Business & Industry(R) Jul/1994-2003/Feb 18
          (c) 2003 Resp. DB Svcs.
File   15:ABI/Inform(R) 1971-2003/Feb 19
          (c) 2003 ProQuest Info&Learning
File   16:Gale Group PROMT(R) 1990-2003/Feb 18
          (c) 2003 The Gale Group
File  160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File   47:Gale Group Magazine DB(TM) 1959-2003/Feb 18
          (c) 2003 The Gale group
File   98:General Sci Abs/Full-Text 1984-2003/Jan
          (c) 2003 The HW Wilson Co.
File  148:Gale Group Trade & Industry DB 1976-2003/Feb 18
          (c)2003 The Gale Group
File  275:Gale Group Computer DB(TM) 1983-2003/Feb 18
          (c) 2003 The Gale Group
File  369:New Scientist 1994-2003/Feb W2
          (c) 2003 Reed Business Information Ltd.
File  583:Gale Group Globalbase(TM) 1986-2002/Dec 13
          (c) 2002 The Gale Group
File  613:PR Newswire 1999-2003/Feb 19
          (c) 2003 PR Newswire Association Inc
File  621:Gale Group New Prod.Annou.(R) 1985-2003/Feb 18
          (c) 2003 The Gale Group
File  624:McGraw-Hill Publications 1985-2003/Feb 19
          (c) 2003 McGraw-Hill Co. Inc
File  635:Business Dateline(R) 1985-2003/Feb 18
          (c) 2003 ProQuest Info&Learning
File  636:Gale Group Newsletter DB(TM) 1987-2003/Feb 18
          (c) 2003 The Gale Group
?
```

?t s9/5,k/11-31

DIALOG(R)File 16:Gale Group PROMT(R)

06774692   Supplier Number: 57101965   (USE FORMAT 7 FOR FULLTEXT)
**Commerce One Announces the Industry's First XML Development Toolkit for
  Building E-Commerce Applications.**
Business Wire, p0506
Nov 2, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 725
PUBLISHER NAME: Business Wire
COMPANY NAMES: *Commerce One Inc.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372640   (Electronic Commerce Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

...   the leader in global business-to-business e-commerce solutions, is
pioneering the development of **XML** -based portal applications that link
buyers and suppliers in real-time trading communities. Just as HTML
provides ubiquitous communications for Web users, **XML   schemas** provide
the required structure and definition to enable buyers and suppliers to
seamlessly conduct e-commerce on a global basis. Using information-rich,
robust **XML   schema** -based applications, XDK 1.0 will allow developers to
provide application-to-application interoperability, which maximizes the
return on investment for enterprises adopting **XML** -based e-commerce. By
introducing object-oriented design for **XML** , Commerce One XDK 1.0
significantly reduces application development time, and provides a powerful
 XML   schema and DTD **parser** to **validate** **XML** documents; an industry
standard SAX API set (Simple API for **XML**); and a rapid application
development environment with strong data typing capabilities.
      Consistent with Commerce One...

DIALOG(R)File 16:Gale Group PROMT(R)

06751051   Supplier Number: 56748861   (USE FORMAT 7 FOR FULLTEXT)
Informix is latest to lay its chips on XML.(Company Business and Marketing)
Lattig, Michael
Network World, pNA
Oct 11, 1999
ISSN: 0887-7661
Language: English   Record Type: Fulltext
Document Type: Tabloid; Trade
Word Count: 456
PUBLISHER NAME: Network World, Inc.
COMPANY NAMES: *Informix Corp.
EVENT NAMES: *220 (Strategy & planning)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372421   (DBMS)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: Informix Centaur (DBMS)
SPECIAL FEATURES: COMPANY

...   enabled-applications using the HTTP protocol, officials said.
      Internet Foundation.2000 will soon support hierarchical **XML** data
storage, allowing the import, export, storage, and querying of **XML**

structures in their native hierarchical format. An early developer's
release of the capability, which is open to any Java **XML parser** and
integrates **XML** with pre-existing database **schemas** , will be available
online later this year through the Informix Developers Network at
www.informix...

 9/5,K/13   (Item 6 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06721982   Supplier Number: 56260500   (USE FORMAT 7 FOR FULLTEXT)
**Informix XML-Enables Internet Foundation.2000; Defines Roadmap for XML
   Strategy.(Company Business and Marketing)**
EDGE: Work-Group Computing Report, pNA
Oct 11, 1999
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 841
PUBLISHER NAME: EDGE Publishing
COMPANY NAMES: *Informix Corp.
EVENT NAMES: *331 (Product development)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation); TELC (Telecommunications)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

...   an XML Web browser or an XML enabled-application that utilizes the
HTTP protocol.
       -- Hierarchical **XML** Data Storage - Allows Internet Foundation.2000
users the ability to import, export, store and query/index **XML** structures
in their native hierarchical format. It provides a unique performance
advantage over other approaches to storing **XML** documents in flat
relational tables, where the use of a document's structures when processing
queries is lost. Hierarchical **XML** data storage is open to any Java **XML
parser** and integrates **XML** with pre-existing database **schema** . An early
developer's release will be made available later this year through the
Informix...

 9/5,K/14   (Item 7 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

06707040   Supplier Number: 56077241   (USE FORMAT 7 FOR FULLTEXT)
XML: Ready for Prime Time.(Technology Information)
Angel, Jonathan
Network, pNA
Oct 1, 1999
ISSN: 1093-8001
Language: English   Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Trade
Word Count: 4369

ABSTRACT:
XML is here to stay and will make developers lives better and easier. XML
and its companion technology XSL (Extensible Stylesheet Language) separate
formatting from content, allowing developers to expose and manipulate data.
HTML, in contrast, mixes formatting tags with plain text. Though HTML also
functions as middleware, its limitations in formatting and as middleware
are well known. XML is a metalanguage that is designed to be a true subset
of SGML, such that any valid XML document is also valid SGML. It can mark
up standard documents just like HTML but is better than HTML when dealing
with structured data.
PUBLISHER NAME: Miller Freeman, Inc.

EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372513   (Application Development Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation)
NAICS CODES: 51121 (Software Publishers)

...   specific document or section thereof. For example, the instruction
<?xml version = 1.0"?> tells an **XML   parser** that the document passing
through it is indeed XML. The instruction <?rtf
page?>, on the...

...of elements) and hence can be used to create style sheets (document
templates) that any **XML   parser** can understand.
     XSL style sheets describe how XML documents should be converted into
other formats...W3C developed the concept of namespaces and the xmlns
keyword. Together, they allow a single **XML** document to employ element and
attribute names that formerly would have clashed. Now, these are
distinguished by different namespace prefixes- and **validated** against
different DTDs or **schemas** .
     Here's an XML code fragment using namespaces:

     <inventory xmlns:storea= "http://www.knowknew.com...

 9/5,K/15   (Item 8 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

06637693   Supplier Number: 55758555 (USE FORMAT 7 FOR FULLTEXT)
Microsoft to Replumb COM+ for Native XML Support.
Computergram International, pNA
Sept 14, 1999
ISSN: 0268-716X
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 407
PUBLISHER NAME: ComputerWire, Inc.
COMPANY NAMES: *Microsoft Corp.
EVENT NAMES: *220 (Strategy & planning); 338 (Product discontinued)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: CMPT (Computers and Office Automation); INTL (Business,
   International)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: LOB; COMPANY

...   to work together.
     "We're doing deep replumbing of COM so that objects interact via **XML**
," said Maritz, "others have used an **XML   parser** and a standard **schemas**
 to deal with the messages - we're making that native." Microsoft is
working on additional protocols in **XML** tags to provide additional
information, such as timing, error handling and security, he said. For some
time, Microsoft has been developing support for **XML** -based RPC through
SOAP - The Simple Object Access Protocol - now on version 0.9. SOAP defines
a simple, extensible message format in standard **XML** , providing a way to
send **XML** messages over HTTP. It is currently soliciting industry feedback
over the specification. UserLand Software Inc...

 9/5,K/16   (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06441638   Supplier Number: 55009153 (USE FORMAT 7 FOR FULLTEXT)
Microsoft Won't Kill XML.(Company Business and Marketing)(Column)
Walsh, Brian

Network Computing, p42
June 28, 1999
ISSN: 1046-4468
Language: English   Record Type: Fulltext
Article Type: Column
Document Type: Magazine/Journal; Trade
Word Count: 660
PUBLISHER NAME: CMP Publications, Inc.
COMPANY NAMES: *Microsoft Corp.
EVENT NAMES: *331 (Product development)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372510   (Software Development Tools); 7372513
     (Application Development Software); 7372682   (Internet Server
   Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY
...   t fret about IP's future is that its control is spread across many
hands.
       XML is similar in that a number of companies have competing **XML**
parsers . **XML** is self-describing, and any **schema** that Microsoft creates
should be verifiable by the **XML** community. Should be are the operative
words. In the worst-case scenario, **XML** itself is balkanized by different
vendor camps. A more likely outcome is that **XML** goes into widespread use
intact, but the fight moves to different visions of how **XML** is used.
       Microsoft uses XML because it solves problems. New releases of
productivity applications adversely...

...objects to access them. Now a third, perhaps better engineered
alternative has emerged-integrate an **XML**   **parser** into your application
and parse the document as you would any XML source. This option...

 9/5,K/17   (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06393028   Supplier Number: 54812610   (USE FORMAT 7 FOR FULLTEXT)
Microsoft Backs XML As Standard Language; Big-name endorsement likely to
  coax users to adopt data description format .(Product Information)
Orenstein, David
Computerworld, p78(1)
June 7, 1999
ISSN: 0010-4841
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; Trade
Word Count: 573
PUBLISHER NAME: IDG Communications, Inc.
COMPANY NAMES: *Microsoft Corp.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation); INTL (Business, International)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: Microsoft Internet Explorer 4.0 (Web browser)
SPECIAL FEATURES: COMPANY
   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
Although most corporate developers are still just pondering the power of
Extensible   Markup Language (**XML**), some Microsoft Corp. customers said
the vendor is providing the tools and direction they need to spur **XML** 's
use for a variety of tasks.Microsoft is building support for **XML** into its
development tools for the sweeping role it envisions for the language. **XML**
 allows developers to describe data within a Web page or text message with
tags similar...

...the Internet programming language HTML (see chart at right). A key
difference, however, is that **XML** lets users define their own tags to
describe their data.'The New ASCII'At Microsoft's TechEd '99 conference in
Dallas last month, the company touted **XML** as a format that will be common
to virtually all Internet applications, making it the...

...data exchange and application integration. Many developers quickly
latched on to a recurring description of **XML** at the conference as "the
new ASCII." Although **XML** use is still scant among developers, sessions on
XML drew standing-room-only crowds.Other PlayersMicrosoft isn't the
fastest vendor to market with **XML** technologies -- other companies such as
Bluestone Software Inc. already provide an **XML** server, and ArborText Inc.
already provides an **XML** editor.But Microsoft's tremendous influence over
millions of developers will spur much of **XML** 's rapid growth, said Martin
Marshall, an analyst at Zona Research Inc. in Foster City, Calif. With some
XML standards unfinished, no vendor can provide complete **XML** support,
Marshall said, but Microsoft will provide a comprehensive set of **XML**
tools, "just in the same way that Visual Studio is a pretty good set of
tools."Even before **XML** is thoroughly integrated into Visual Studio,
Philip Morris Inc. plans to jump into **XML** , said Ken P. Forster, a staff
engineer at the Richmond, Va., tobacco and foods giant...

...said. "I don't have to wait for wizards."Custom TaggingPhilip Morris is
looking to **XML** to enable the myriad embedded devices on its manufacturing
plant floors to describe themselves and their data to applications in a
standard way. Because **XML** allows users to define their own tags and is
based on simple text, **XML** could embrace the different devices.With such a
system established, Forster said, the data streaming from the devices, once
formatted with **XML** , could be routed to different applications by
Microsoft's BizTalk server, scheduled for beta testing this fall. The data
could be understood by Windows applications by using Microsoft's COM **XML**
parser .At Qualcomm Inc. in San Diego, developers of a wireless
communications system that monitors freight trucks are looking at **XML** as
a way to connect distributed application components, said applications
engineer Vik Yashpal. Messages with **XML** -tagged data -- and simple logic
commands -- could be carried by MSMQ, Microsoft's message queuing
technology, Yashpal said.Although users agreed with Microsoft that **XML**
will likely become pervasive, some cited near-term obstacles. Using **XML**
requires writing **schemas** that define rules for **XML** documents. And
efforts to design industrywide **schema** are only now getting under
way.Wilson K. Gibbins, a staff Web technology consultant at...

...recently standardized on the Internet Explorer 4 browser. Upgrading to
Internet Explorer 5, which features **XML** support, could be years away, he
said. w

INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

     Each is racing to deliver **XML** servers and **parsers** or **XML**
extensions to their existing enterprise software. Last week, for instance,
Microsoft not only announced a summer beta release for its own **XML** server
product (BizTalk Server) but also published a blueprint (BizTalk Framework)
for converting business objects and application logic into **XML** . It also
created a Web site (BizTalk.org) that serves as a quasi-independent
clearinghouse for **XML** **schema** , which describe different kinds of
business data.
     While experts agree that XML is worth all...

 9/5,K/19   **(Item 12 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)
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06273029   Supplier Number: 54392119 (USE FORMAT 7 FOR FULLTEXT)
DataChannel Releases the Most Advanced XML   Parser -- **XJParser** -- and
   Introduces xDev its XML Developers Program.
Business Wire, p0012
April 16, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1120
PUBLISHER NAME: Business Wire
COMPANY NAMES: *DataChannel Inc.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372680   (Internet Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

DataChannel Releases the Most Advanced XML   Parser -- **XJParser** -- and
   Introduces xDev its XML Developers Program.
...   http://www.datachannel.com/xdev.
     XJParser becomes the industry's most complete, reliable, and
innovative **XML** **parser** for delivering powerful, server-based enterprise
applications utilizing open web-standards. XJParser is the cornerstone...

...capacity to integrate data from any source."
     XJ Parser Feature Overview
     Extended functionality of XJ **Parser** includes:
     -- **XML** 1.0 Standards Compliance with a complete set of W3C
     interfaces to ensure interoperability with...

...in
     one package. -- Supports and extends full XML functionality in
Microsoft Internet
     Explorer 5.0. -- **Validating** support for DTD's and **XML** **schema** to
verify true and
     error-free XML data. -- Exception and Error Handling to handle Java
...

 9/5,K/20   **(Item 13 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)
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06001682   Supplier Number: 53387559 (USE FORMAT 7 FOR FULLTEXT)
Microsoft Ties Data Transfers To XML in IE 5.0.(Company Business and
   Marketing)
Gonsalves, Antone
PC Week, p33(1)

Oct 26, 1998
ISSN: 0740-1604
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Tabloid; General Trade
Word Count: 347
PUBLISHER NAME: Ziff-Davis Publishing Company
COMPANY NAMES: *Microsoft Corp.
EVENT NAMES: *331   (Product development)
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUSN   (Any type of business); CMPT   (Computers and Office
   Automation)
NAICS CODES: 51121   (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY
...   be transferred via XML between servers and between servers and
clients. Each machine needs an **XML**   **parser** that follows standards set by
the World Wide Web Consortium.
        Users believe Microsoft will move...

...technology for universal data access.
        IE 5.0 also will implement Extensible Style Language and **XML**
Schema , standards that have not yet been finalized by the W3C. "Microsoft
has put a lot of effort into developing an [**XML**] **parser** that gives you
improved performance," said Eric Carlson, chief technology officer at
Silknet Software Inc...

 9/5,K/21   (Item 14 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)
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05993190   Supplier Number: 53364759   (USE FORMAT 7 FOR FULLTEXT)
Veo Systems Announces Support For Sun Microsystems' New Java Development
   Kit With Java-Based Parser; Veo Systems Leads Integration of XML and
   Java.
Business Wire, p0011
Dec 8, 1998
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 390
PUBLISHER NAME: Business Wire
COMPANY NAMES: *Sun Microsystems Inc.; Veo Systems Inc.
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *3573000   (Computers & Peripherals)
INDUSTRY NAMES: BUS   (Business, General); BUSN   (Any type of business)
NAICS CODES: 334111   (Electronic Computer Manufacturing)
SPECIAL FEATURES: LOB; COMPANY

   (USE FORMAT 7 FOR FULLTEXT)
TEXT:
...Inc., a pioneer in the development of open commerce networks, today
announced a Java-based **XML**   **parser** that will support Sun Microsystems,
Inc.'s next release of its Java(TM) Development Kit...
        Due to ship in Q1 of 1999, Veo Systems' **XML**   **parser** will bridge the
gap between **XML** and Java by being the first **parser** to support the
Schema for Object Oriented **XML** (SOX) submission to the W3C **XML** – **Schema**
 working group. The Veo **parser** will combine unprecedented speed with **XML**
 DTD and SOX **validation** .
        SOX extends **XML** for e-commerce and distributed computing by adding
strong typing, inheritance, global name spaces, and legal attribute values.
These extensions enable **validity** checking and facilitate mapping a
document to other documents as well as to the rich data **schemas** used in
databases and object oriented software applications.
        "Veo is leading the way to couple...

...innovative e-commerce and business integration solutions."

Veo Systems is currently accepting applicants for the **XML** **parser** early access program. Anyone interested in participating should visit Veo's website at www.veosystems.com/ **xml** / **parser** / **parser** .html
    About Veo Systems, Inc.
    Veo Systems is the leading supplier of products and services...

 9/5,K/22   (Item 15 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

05377826   Supplier Number: 48177913   (USE FORMAT 7 FOR FULLTEXT)
**First XML Tools Hit Market -- Microsoft indicates language is key to Web
  application strategy**
Karpinski, Richard
InternetWeek, p8
Dec 15, 1997
ISSN: 1096-9969
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 883
PUBLISHER NAME: CMP Media, Inc.
COMPANY NAMES: *Microsoft Corp.
EVENT NAMES: *350 (Product standards, safety, & recalls)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372512   (Programming Utilities)
INDUSTRY NAMES: BUSN (Any type of business); TELC (Telecommunications)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: COMPANY

...   with renewed vigor the existing XML support in Internet Explorer
4.0, which includes an **XML** **parser** , support for the **XML** Object Model
and XML Data Source Object, which brings XML into the world of IE...

...announced some of the first XML tools:
    DataChannel Inc. announced the availability of the DataChannel **XML**
Development Environment (DXDE), including two **XML** **parsers** , viewers for
XML and CDF (Channel Definition Format) content, and an **XML** server that
supports a database **schema** for managing and distributing meta-data.
    A beta version of DXDE is available now for...

 9/5,K/23   (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB

10109247   SUPPLIER NUMBER: 20457851   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**XML to ease Net tensions. (emerges as an independent middleware standard
  for distributed computing) (Technology Information)**
Walsh, Jeff
InfoWorld, v20, n13, p1(2)
March 30, 1998
ISSN: 0199-6649   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 462   LINE COUNT: 00039

ABSTRACT: The Extensible Markup Language (**XML**) protocol is emerging as
an independent middleware standard easing competition in the Internet
distributed computing area. Companies including Microsoft and DataChannel
are planning to use the standard as a communication link between CORBA and
the Component Object Model (COM). DataChannel plans to deliver a tool that
enables Java-capable systems to communicate with Windows boxes. The tool
can pass **XML** -based COM Document Type Definitions (DTDs) across the Web by
using HTTP. The technology used by DataChannel is called WebBroker, and
uses a combination of an **XML** **parser** and a java servlet object request
broker to format the request into a COM.DTD. DataChannel intends to submit
to the World Wide Web Consortium its DTD **schema** as a technique to manage

distributed computing across **XML** .
 COMPANY NAMES: DataChannel--Product development
 INDUSTRY CODES/NAMES: BUSN   Any type of business; CMPT   Computers and
   Office Automation
 DESCRIPTORS: Object-oriented programming--Usage
 FILE SEGMENT: CD File 275

ABSTRACT: The Extensible Markup Language (**XML**) protocol is emerging as
an independent middleware standard easing competition in the Internet
distributed computing...

...tool that enables Java-capable systems to communicate with Windows
boxes. The tool can pass **XML** -based COM Document Type Definitions (DTDs)
across the Web by using HTTP. The technology used by DataChannel is called
WebBroker, and uses a combination of an **XML** **parser** and a java servlet
object request broker to format the request into a COM.DTD. DataChannel
intends to submit to the World Wide Web Consortium its DTD **schema** as a
technique to manage distributed computing across **XML** .
 ...   s WebBroker technology uses a Java servlet as an object request
broker combined with an **XML** **parser** to format the request into a COM
DTD. The XML-based method calls and method...

 9/5,K/24   (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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09976637   SUPPLIER NUMBER: 20086283   (USE FORMAT 7 OR 9 FOR FULL TEXT)
First XML tools hit market. (extensible markup language standard emerging)
  (Technology Information)(Brief Article)
Karpinski, Richard
InternetWeek, n694, p8(1)
Dec 15, 1997
DOCUMENT TYPE: Brief Article   LANGUAGE: English   RECORD TYPE:
   Fulltext
WORD COUNT: 946   LINE COUNT: 00077

 INDUSTRY CODES/NAMES: BUSN   Any type of business; TELC
     Telecommunications
 DESCRIPTORS: SGML (Document markup language)--Standards
 PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software)
 SIC CODES: 7372 Prepackaged software
 FILE SEGMENT: CD File 275

 ...   with renewed vigor the existing XML support in Internet Explorer
4.0, which includes an **XML** **parser** , support for the **XML** Object Model
and XML Data Source Object, which brings XML into the world of IE...
 ...announced some of the first XML tools:
     DataChannel Inc. announced the availability of the DataChannel **XML**
Development Environment (DXDE), including two **XML** **parsers** , viewers for
XML and CDF (Channel Definition Format) content, and an **XML** server that
supports a database **schema** for managing and distributing meta-data.
     A beta version of DXDE is available now for...

 9/5,K/25   (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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02192506   SUPPLIER NUMBER: 20157967   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Coming of age in cyberspace: births, deaths, and milestones at SGML/XML
  '97. (includes related articles on status of XML standards, Internet
  World conference and the SGML/XML '97 conference) (Industry Trend or
  Event)
Alschuler, Lioria; Alexander, George
Seybold Report on Internet Publishing, v2, n5, p21(14)
Jan, 1998

SPECIAL FEATURES: table; illustration
COMPANY NAMES: Adobe Systems Inc.--Product introduction; ArborText Inc.--
  Product enhancement; Corel Corp.--Product introduction; Excosoft--Product
  introduction
DESCRIPTORS: Trade Show Report; SGML/HTML; Portable Document Software;
  Software Product Enhancement; Word processing software; File Format
  Conversion Software
PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software); 7372505
  (Portable Document Software); 7372530 (Disk/File Management Software);
  7372682 (Internet Server Software)
SIC CODES: 7372 Prepackaged software
TICKER SYMBOLS: ADBE
TRADE NAMES: Adobe FrameViewer 5.5 (Portable document software)--Product
  introduction; Adept (Portable document software)--Product enhancement;
  WordPerfect SGML Edition (Word processing software)--Product introduction
  ; Documentor (Portable document software)--Product introduction; DynaTag
  3.0 (File format conversion software)--Product introduction
FILE SEGMENT: CD File 275

...   standard input parsers: James Clark's SP for validating SGML and
XML; a non-validating **XML parser** ; and RTF Scanner for RTF conversion.
Balise already has full Unicode support.
     The DTD API...appetite for creative approaches to "fun with structured
text."
     * We will get some form of **XML** -data that will give us new methods of
expressing architectural forms, inheritance and strong-data typing. **XML**
-data will greatly accelerate the integration of structured,
application-independent markup with mainstream computer science. This
process will be shadowed by tension between those who would trash the
SGML-specific **schema** designs of the past in favor of a brave new
beginning and those with cooler...
...embodied in a decade of DTD design and for the political protection of
the ISO- **validated** standards process. But there are those who would just
as soon ditch DTDs for **validation** and replace them with something more
akin to database **schemas** .
     * RDF-related efforts will pioneer new ways to represent knowledge
through directed graphs in structured...

 9/5,K/26   (Item 2 from file: 275)
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02132818   SUPPLIER NUMBER: 20101050   (USE FORMAT 7 OR 9 FOR FULL TEXT)
XML: the intersection of documents and databases on the Internet.
  (eXtensible Markup Language) (includes related article on how XML makes a
  difference) (Internet/Web/Online Service Information)
Prescod, Paul
Databased Web Advisor, v15, n12, p36(4)
Dec, 1997
ISSN: 1090-6436   LANGUAGE: English   RECORD TYPE: Fulltext; Abstract
WORD COUNT: 3090   LINE COUNT: 00254

ABSTRACT: eXtensible Markup Language (XML) technology is creating quite a
stir in the Internet world because it addresses the convergence of document
processing, Web development, EDI, knowledge representation and databases.
More extensible than HTML but no more extensible than SGML, XML is a
solution propagated but the World Wide Web Consortium to answer the Web's
unique challenges. XML is an SGML subset that maintains the central
premises of extensible document-type definitions (DTD) and valid, robust
documents. The technology is database-friendly, Internet-ready and
document-smart. Its implementation is easy and simple. When it is ratified,
XML creators are confident that a new generation of cheaper tools will
emerge that will assist in the automation of the creation, management,

searching and conversion of XML documents.

DESCRIPTORS: SGML/HTML; Internet/Web Technology
FILE SEGMENT: CD File 275

...   be cheaper to implement, opening it to a wider range of people.
    The XML makeover
        XML is the World Wide Web Consortium's answer to the unique
challenges of the web environment. **XML** is no more extensible than SGML,
but is extensible when compared to HTML, which more people are familiar
with. **XML** is a subset of SGML that preserves the central concepts of
extensible DTDs and valid, robust documents. **XML** documents typically can
be **parsed** and browsed without reference to their DTD (**schema**), though
they need access to the DTD for **validation** . Opinions vary widely on how
important the SGML features left out of **XML** are, but as a whole, the SGML
community supports the **XML** standard.
        XML has no tag minimization. In many cases, the removal of this
option means...than write parsers for a dozen different formats, vendors
can write (or download) a single **parser** for **XML** . **XML**   **parser** source
code for Java, C++, Python, TCL, and other languages already exists and is
freely available. So, most programmers can use XML-based formats without
writing a **parser** at all.
        XML 's semantic framework means that each particular format need not
reinvent concepts like element, attribute...

9/5,K/27   (Item 1 from file: 636)
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04503771   Supplier Number: 58087806   (THIS IS THE FULLTEXT)
SUN MICROSYSTEMS: Sun Microsystems leads industry effort to simplify XML
    development.
M2 Presswire, pNA
Dec 8, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1686
TEXT:
 M2 PRESSWIRE-8 December 1999-SUN MICROSYSTEMS: Sun Microsystems leads
industry effort to simplify XML development (C)1994-99 M2 COMMUNICATIONS
LTD
    RDATE:071299
        * Java 2 Platform Support for the eXtensible Markup Language (XML)
dramatically eases the creation of Ecommerce applications
        NEW YORK, NY -- Java BusinessSM Conference -- Sun Microsystems, Inc.
today made two announcements that underscore its support for the eXtensible
Markup Language (XML) with the Java 2 platform: the availability of the
Java Application Programming Interface (API) for XML Parsing Optional
Package ("JAXP"), and the formation of an expert group for the XML Data
Binding project. The expert group for this project, which is going through
the Java Community Process, consists of Allaire, Ariba, BEA/Web Logic,
Bluestone Software, AOL/Netscape, Extensibility, Fujitsu, IBM, Object
Design, Oracle, webMethods and Sun Microsystems. With these announcements,
Sun is leading the effort to deliver XML technologies for the Java 2
platform that will ease the creation and maintenance of Java
technology-based applications enabled by XML and improve portability of
data exchange between disparate business systems.
        In 1996, Sun spearheaded an initiative through the W3C to develop the
eXtensible Markup Language (XML), a standards-based universal syntax for
describing and structuring data in a way that is independent from the
application logic. Sun's announcement of the Java technologies for XML
provides universal application logic that complements XML. The Java 2
platform and XML are complementary technologies that each have common
features critical for industrial-strength Web-based applications, including
platform-independence, industry standards, extensible, reusable, and global
language support. Together, the Java 2 platform and XML will allow

enterprises to simplify and lower the cost of information sharing and exchange in Web applications.

"In today's '.com' world, customers want to build applications with the assurance of both data and business logic interoperability within a heterogeneous environment. The Java 2 platform and XML provide the open, standards-based technologies to help ensure this interoperability without locking developing into proprietary environments." said George Paolini, Vice President, Java Community Development, Sun Microsystems. "The Java 2 platform and XML provide the open, standards-based technologies are helping to ensure this interoperability without locking developers into proprietary environments."

Simpler, Faster Enterprise Development with the Java 2 Platform and XML

The Java API for XML Parsing ("JAXP") Optional Package allows developers to easily build Java-based applications enabled by XML for e-commerce, enterprise application integration, and web publishing. An API is the interface through which a software program accesses an operating system, and is an essential layer for ensuring code portability. An optional package is a standard Java API that is not part of the Java Runtime Environment but can be optionally added depending on specific application needs. JAXP is now in early access release and available free-of-charge at http://java.sun.com/xml. The final version of JAXP is scheduled to ship in the first quarter of 2000.

The JAXP optional package provides basic functionality for reading, manipulating, and generating XML documents through pure Java APIs. Seamlessly integrated with the Java 2 platform, JAXP provides a standard way for a Java platform-based application to plug in any **XML** -conformant **parser** . While the reference implementation uses Sun's experimental high performing Java Project X as its default **XML** **parser** , the software's pluggable architecture allows any **XML** - conformant **parser** to be used, such as the **xml** .apache.org **XML** **parser** , code named Xerces. (For information on this community project to which Sun donated technology, please visit www.apache.org)

As part of Sun's ongoing commitment to industry developed standards, JAXP is fully conformant to XML standards from the W3C and the XML community. JAXP is being developed through the Java Community Process ("JCP"), which is the formalization of the open process that Sun has been using since 1995 to develop and revise Java technology specifications in cooperation with the international community of developers using Java technologies.

Sun also announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML** -enabled applications with a minimum of development effort. Project Adelard provides a two-way mapping between **XML** documents and Java technology-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML** **schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by a system. Thus, not only will developers be able to more easily develop and process Java technology-based applications that leverage **XML** , but enterprises will also lower costs through more productive development.

As with JAXP, Project Adelard is being developed through the JCP. Sun is working with the W3C XML Schema Group and other standards consortia, such as OASIS and XML.org. The specification and reference implementation for Project Adelard are under development by the expert group. Project Adelard will be available during the second quarter of 2000.

Customers and press interested in hearing more details about Sun's announcements should attend Sun's XML session "Overview of XML in the Java 2 Platform" and "XML in the Enterprise (J2EE)" at the Java BusinessSM Conference, Wednesday, December 8, from 9:00 am -- 10:15 am and 10:30am -- 11:45am, respectively.

About Sun Microsystems, Inc.

Since its inception in 1982, a singular vision "The Network Is The Computer" -- has propelled Sun Microsystems, Inc. (Nasdaq: SUNW), to its

position as a leading provider of industrial-strength hardware, software and services that power the Internet and allow companies worldwide to ".com" their businesses. With $12.4 billion in annual revenues, Sun can be found in more than 170 countries and on the World Wide Web at http://www.sun.com.

About the Java Business Conference

Don't miss the upcoming Java Business (SM) Conference, December 7 - 9, 1999 at the Jacob Javits Convention Center in New York City. The Java software industry, as well as enterprise customers of these vendors, will showcase their end-to-end enterprise solutions built on the Java platform. This three-day event is an intense educational conference that will enable attendees to make better informed decisions on their web business strategies, including how to leverage XML with the Java platform. The conference will also highlight both proven and new industry products that build upon the power of the Java platform. For more information, or to register, please visit http://www.javabusinessconference.com or call 1-888-886-8309.

Sun, Sun Microsystems, the Sun logo, The Network Is The Computer, Java, and Java Business are trademarks or registered trademarks of Sun Microsystems, Inc. in the United States and in other countries. Press announcements and other information about Sun Microsystems are available on the Internet via the World WideWeb using a tool such as Netscape Navigator or Sun's HotJava browser. Type http://www.sun.com at URL prompt.

XML Data Binding Project -- Expert Group

"Bluestone is totally committed to Java as an application platform and XML as a data interchange standard. By leading the efforts to simplify the creation and maintenance of XML-enabled Java applications, Sun reaffirms the value of uniting these two technologies for the benefit of enterprise developers. Bluestone plans to provide complete support for the Java API for XML Parsing, and as a member of the Adelard expert group, we plan to fully participate in the XML Data Binding project."

Bob Bickel senior vice president of products Bluestone Software, Inc.

"Project Adelard is a significant step forward for the XML community and we are excited to support this development initiative. Furthering XML will enable the technology to be heavily leveraged in the areas of e-commerce, business-to-business computing and syndication. Allaire's experiences and successes using the data-centric XML technology known as Web Distributed Data Exchange (WDDX) nicely complement Project Adelard and will further contribute to advancing the widespread adoption of XML within mainstream corporations. Sun's leadership in this area will help to ensure XML's role in protecting companies investments in Java and XML from the current standards debate."

Simeon Simeonov chief architect Allaire Corporation

"The Java Project X parser implementation is a key component of Ariba's Java XML solution. JAXP extends Sun's parsing technology and will make our job easier as we leverage XML in building out our open, global platform for B2B eCommerce. We look forward to evolving the API through our participation in the XML Data Binding group."

Doug Bunting cXML standards manager Ariba Corporation

"For JAVA users, this is a natural way of facilitating the integration of XML into that environment. Using schema as a basis to map information from XML representation into the object-oriented world underscores the central purpose of schema in XML business initiatives."

Lee Buck CTO Extensibility, Inc.

"XML technology provides a cost-effective, cross-platform approach to improved data exchange which is becoming more and more critical to enterprise applications. We see XML as reality in the market today; our intra-company system has partially been adapted to XML already, while we are working with a number of major companies to help them revamp their systems by using XML and internet technology. We are pleased that Sun has been driving this effort; XML and the Java platform are a perfect match, fueling new generation web applications, such as e-commerce."

Noboru Urano director of XML product development Fujitsu Limited

"We recognize the importance of Java and XML as strategic languages for B2B applications. eXcelon, which has full support for the XML standards and Java, welcomes this initiative to marry platform independent processing with platform independent data."

Larry Alston vice president of marketing Object Design
"webMethods is dedicated to providing customers with seamless
business-to-business e-commerce and integration solutions. We are pleased
to be part of the Adelard XML expert group. By creating a basis for rapid
development of XML-enabled JAVA technology applications, Adelard will
provide a valuable contribution to the rapid deployment of e-commerce
strategies."
        Charles Allen vice president of product marketing webMethods, Inc.
        CONTACT: Susan Struble Tel: +1 408 343 1814 e-mail:
susan.struble@eng.sun.com
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PUBLISHER NAME: M2 Communications Ltd.
COMPANY NAMES: *Sun Microsystems Inc.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *3573000   (Computers & Peripherals)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,
   International)
SIC CODES: 3571 (Electronic computers)
NAICS CODES: 334111 (Electronic Computer Manufacturing)
TICKER SYMBOLS: SUNW

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04452037   Supplier Number: 56062845   (THIS IS THE FULLTEXT)
INFORMIX: Informix XML-enables Internet Fo Foundation.2000.
M2 Presswire, pNA
Oct 7, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 909
TEXT:
 M2 PRESSWIRE-7 October 1999-INFORMIX: Informix XML-enables Internet
Foundation.2000 (C)1994-99 M2 COMMUNICATIONS LTD
        RDATE:061099
        * Defines roadmap for XML strategy
        JACOB JAVITS CENTER, NEW YORK, NY -- Fall Internet World -- October
6, 1999 -- Informix Corporation (NASDAQ: IFMX), the technology leader in

enterprise database-powered solutions today announced support in Informix Internet Foundation.2000 for eXtensible Markup Language (XML), the Worldwide Web Consortium (W3C) standard for universal data exchange. With XML, Internet Foundation.2000 customers will be able to integrate existing data with their new E-commerce applications and efficiently exchange data with their customers, partners, and suppliers. Informix also announced its strategy to support XML across all of its products to deliver the easiest and fastest way to build and integrate applications and data for the new i.Economy.

Businesses are now moving their focus from electronic storefronts to streamlining their supply chain processes through business-to-business integration. With this migration, infrastructure requirements become more and more complex. XML is a metadata-rich way of representing data that is understandable to both humans and machines. It facilitates the increasing need for the tighter integration of intracompany applications and the evolving requirements for seamless inter-company communications.

More specifically, Informix today announced:

XML support in Internet Foundation.2000 – Available immediately, XML is supported through the newest version of the Informix Web DataBlade module. The Web DataBlade module enables Informix Internet Foundation.2000 to generate dynamic XML data and documents via a familiar SQL interface. As a result, Internet Foundation.2000 users can easily and seamlessly publish XML data over the Internet. XML can now be delivered in a scaleable way to an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

Hierarchical **XML** Data Storage – Allows Internet Foundation.2000 users the ability to import, export, store and query/index **XML** structures in their native hierarchical format. It provides a unique performance advantage over other approaches to storing **XML** documents in flat relational tables, where the use of a document's structures when processing queries is lost. Hierarchical **XML** data storage is open to any Java **XML** **parser** and integrates **XML** with pre-existing database **schema** . An early developer's release will be made available later this year through the Informix Developers Network (http://www.informix.com/idn).

XML Product Roadmap – In the first half of the year 2000, Informix will deliver other XML-enabled products, including a server-based workflow engine that supports the communication of XML documents and enables rules to be embedded in documents for exception handling or processing. An XML metadata repository is also in development, which will make metadata uniformly accessible to tools and applications, regardless of the data source. Other XML-related standards like XSL, XML Schema, XML Query Language (XQL), XML Linking, and XML Infoset are planned to be supported as they are finalized by the W3C.

"XML is critical to building Web solutions that share data across multiple applications, platforms, and tiers. Informix has the unique capability of handling XML content natively within the database, preserving its structure for maximum performance and flexibility," said Bill Hostmann, director of product management and marketing at Informix. "By combining Java and XML support directly in the database, Informix is delivering the foundation for Web solutions supporting any data on any platform across all tiers."

Informix Internet Foundation.2000 stands out from other database solutions for the "fit" between its core extensibility and companies' evolving Internet-enabled database needs. By supporting XML, Internet Foundation.2000 delivers the fastest, easiest, high performance and scaleable XML data-driven Internet applications in the market today.

"Informix is poised to establish a leadership position in XML data management with their unique approach that involves combining XML storage in its native hierarchical format with business data stored in a fully relational manner," said Carl Olofson, Research Director, International Data Corporation. "The performance one can gain in this structure will be relevant in efficient XML-based access to data and data interchange, making the Informix Internet Foundation.2000 a forerunner in data management for the Internet age."

Informix also announced its membership in the W3C and the Organization for the Advancement of Structured Information Standards (OASIS). The W3C was founded to develop common protocols to enhance the

interoperability and lead the evolution of the World Wide Web. OASIS is a nonprofit, international consortium dedicated to accelerating the adoption of product-independent formats based on public standards like XML.

"As the leading technology provider of database solutions, Informix brings a valuable perspective to the work of the Consortium. We welcome their contributions, particularly as we develop the XML.org Registry and Repository," noted Laura Walker, executive director of OASIS. "Participation in OASIS is crucial for any company with an interest in the success of XML. The growing diversity of OASIS membership reflects the degree to which XML is affecting the industry."

About Informix

Informix Corporation, based in Menlo Park, California, provides innovative database products that assist the world's major corporations to attain competitive advantage. Informix is widely recognized as the technology leader for corporate computing environments ranging from small workgroups to very large parallel processing applications. Informix's database server, application development tools, superior customer service, and strong partnerships enable the company to be at the forefront of major information technology solution areas including data warehousing, high performance OLTP, and Web/e-commerce. For more information, contact the sales office nearest you or visit our Web site at www.informix.com

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PUBLISHER NAME: M2 Communications Ltd.
COMPANY NAMES: *Informix Corp.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: IFMX

...   an XML Web browser or an XML enabled-application that utilizes the HTTP protocol.

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04450806   Supplier Number: 56026556 (THIS IS THE FULLTEXT)
INFORMIX SOFTWARE: Informix XML-enables Internet Foundation.2000.
M2 Presswire, pNA
Oct 6, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
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database server, application development tools, superior customer service,
and strong partnerships enable the company to be at the forefront of major
information technology solution areas including data warehousing, high
performance OLTP, and Web/e-commerce. For more information, contact the
sales office nearest you or visit our Web site at www.informix.com.
        CONTACT: Clair Rogers Tel: +44 (0)207 386 1414 e-mail:
clair.rogers@firefly.co.uk Terry Lawlor, Informix Software Tel: +44 (0)118
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04429359   Supplier Number: 55745388   (THIS IS THE FULLTEXT)
MICROSOFT: Windows DNA 2000 provides pervasive XML su support for
   next-generation web development.
M2 Presswire, pNA
Sept 14, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1088
TEXT:
 M2 PRESSWIRE-14 September 1999-MICROSOFT: Windows DNA 2000 provides
pervasive XML support for next-generation web development (C)1994-99 M2
COMMUNICATIONS LTD
        RDATE:130999
        * Microsoft Deepens Commitment to XML as Industry-Standard
Integration Mechanism
        REDMOND, Wash. -- Microsoft Corp. today expanded its industry-leading
commitment to eXtensible Markup Language (XML) with a series of
announcements for far-reaching XML support in Windows Distributed interNet

Architecture (Windows DNA) 2000, the next generation of the Microsoft platform for building distributed Web applications. XML, an industry-standard technology developed by the Worldwide Web Consortium (W3C), enables heterogeneous interoperability of data, components, business processes and applications over the Internet.

The Microsoft Windows 2000 operating system, the cornerstone of Windows DNA 2000, is the first operating system with integrated, end-to-end XML support. Key products of the Windows DNA 2000 solution will offer new features and functionality based on XML, including Microsoft SQL Server, the "Babylon" Integration Server, Microsoft Commerce Server and Microsoft BizTalk Server. The key enabler for Microsoft's vision of integrated, programmable Web services is XML. Through the exchange of XML messages, services can easily describe their capabilities and allow any other service, application or device on the Internet to easily invoke those capabilities. To help realize that vision, Microsoft today is submitting to the Internet Engineering Task Force (IETF) an Internet draft specification for the Simple Object Access Protocol (SOAP), an XML-based mechanism that bridges different object models over the Internet and provides an open mechanism for Web services to communicate with one another.

"XML is a key enabler for a new generation of Internet opportunities, linking together applications, services and devices," said Paul Maritz, group vice president, Developer Group, Microsoft. "Through our universal support for XML, Microsoft is making these opportunities a reality for Web developers today." Microsoft Builds on Long-Standing Commitment to XML To date, Microsoft has actively participated in the W3C's creation and standardization of XML and has aggressively delivered XML support in its products. For example, Microsoft Internet Explorer was the industry's first browser software to support XML. For developers, Microsoft provides a standalone, redistributable version of MSXML, a general purpose **XML parser** that lets any application easily manipulate XML information. In addition, Microsoft recently created the MSDN XML Developer Center, which offers developers tools and resources to help them take advantage of XML. Finally, with dozens of industry partners, customers and standards bodies, Microsoft has helped develop the BizTalk Framework to accelerate the adoption and use of XML for e-commerce and enterprise application integration.

Following is a summary of Microsoft initiatives and products supporting XML:

Windows 2000. Windows 2000 is the first operating system with integrated, high-performance XML support for easy data exchange between disparate businesses and enterprise systems. XML support can be found throughout Windows 2000, which includes a built-in, high-performance **parser** , support for **XML** streaming and persistence, XML record-set translation, and support for building XML data islands in Internet Explorer 5.0. SOAP. To help developers build Web services and link heterogeneous components over the Internet, Microsoft worked with industry experts to create the Simple Object Access Protocol. SOAP provides an open, extensible way for applications to communicate using XML-based messages over the Web, regardless of what operating system, object model or language particular applications may use. SOAP facilitates universal communication by defining a simple, extensible message format in standard XML and thereby providing a way to send that XML message over HTTP. Microsoft is soliciting industry feedback on version 0.9 of the SOAP specification, which can be found at http://msdn.microsoft.com/xml/.

SQL Server 7.0. Microsoft is tightly integrating XML into the SQL Server RDBMS to help developers build the next generation of Web and enterprise applications and plans to deliver a technology preview with XML integration and direct URL access to SQL Server 7.0 on the MSDN XML Developer site in the fourth quarter of 1999. This will enable queries to be sent directly to SQL Server 7.0 via a URL, with the results returned as XML-formatted documents. The technology preview will be available in the fourth quarter of 1999 and will be downloadable from the MSDN XML Developer Center. The next version of SQL Server, code-named "Shiloh," will be fully XML-enabled and will include a superset of the features available in the technology preview for SQL Server 7.0. SQL Server "Shiloh" is scheduled to be available in mid-2000.

"Babylon" Integration Server. Microsoft announces XML Transaction

Integrator (XML-TI), a new feature of the forthcoming "Babylon" integration
server that enables customers to easily integrate and commerce-enable their
existing enterprise applications via XML. XML-TI allows developers to
easily invoke transactions on a host with XML without having to change any
existing host code or write any new code. XML-TI consists of a runtime
proxy and a component builder that generates an XML document interface for
executing legacy CICS and IMS transactions. In addition, a Babylon SDK will
provide the ability to create XML-TI components for other legacy
transaction environments. The "Babylon" integration server is scheduled to
be available by mid-2000.

MSDN **XML** Developer Center. Microsoft has launched a new Web site to
centrally provide developers with all the tools and resources they need to
be successful leveraging **XML** in their Web and enterprise applications.
The new MSDN **XML** Developer Center, at http://msdn.microsoft.com/ **xml** /,
will bring together the rich set of tools and resources Microsoft provides
to make it easier for developers to work with **XML** , including the MSXML
parser , the fastest **XML** **parser** available on the market today. This
will allow developers to create flexible and open solutions that easily
enable data interoperability and exchange. BizTalk. The BizTalk Framework
makes it easy for businesses to exchange information between software
applications, integrate business processes, and conduct business over the
Internet with trading partners and customers. With today's announcement of
the opening of the BizTalk.Org **schema** library on http://www.biztalk.org,
customers and partners can get started today using the BizTalk Framework.
Today's related announcement provides more details. The forthcoming
Microsoft BizTalk Server will provide the tools and infrastructure to
support the efficient interchange of BizTalk-compatible business documents.

Founded in 1975, Microsoft (Nasdaq "MSFT") is the worldwide leader in
software for personal computers. The company offers a wide range of
products and services for business and personal use, each designed with the
mission of making it easier and more enjoyable for people to take advantage
of the full power of personal computing every day.

PUBLISHER NAME: M2 Communications
COMPANY NAMES: *Microsoft Corp.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372000 (Computer Software)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business,
International)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
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redistributable version of MSXML, a general purpose **XML** **parser** that
lets any application easily manipulate XML information. In addition,
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and partners can get started today using the...

9/5,K/31   (Item 5 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

04150427   Supplier Number: 54416939   (THIS IS THE FULLTEXT)
DATACHANNEL: DataChannel releases the most advanced XML   parser **XJParser
  and introduces xDev program.**
M2 Presswire, pNA
April 19, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 921
TEXT:
M2 PRESSWIRE-19 April 1999-DATACHANNEL: DataChannel releases the most
advanced **XML   parser** XJParser and introduces xDev its XML developers
program (C)1994-99 M2 COMMUNICATIONS LTD
     RDATE:160499
     Bellevue WA -- DataChannel announced today the immediate availability
of XJParser a cornerstone of its XML Toolkit for XML Framework. Formerly
referred to as the DataChannel XJ2 Parser, the new release adds substantial
functionality with significant improvements in performance. XJParser
becomes the industry's most complete, reliable, and innovative **XML
parser** for delivering powerful, server-based enterprise applications
utilizing open web-standards. DataChannel's joint development agreement
with Microsoft allows DataChannel to independently extend the functionality
and performance of XJParser to cross-platform environments making
DataChannel the first company to offer cross-platform parser functionality.
     With over 5,000 beta users, XJParser has been utilized in a diverse
set of scenarios from small department applications to large commercial
enterprise applications. Csoft International, an advanced applications
vendor, is using XML and the XJParser to create standard data formats for
their applications. They provide state-of-the-art software solutions for
the retail industry, which gather point-of-sale and other transaction
profiling information. Data originates from various sources and Csoft
needed a cutting edge solution to access these multiple information stores.
     "Our products must be capable of exchanging information with a wide
range of disparate systems from legacy based to architectures using the
latest emerging technologies," said Terry Bissonette, senior software
engineer, CSoft International. "The XJParser showcases XML as an ideal data
exchange medium to the standards bodies and peer vendors in our industry.
We have used it to build a general framework that manages the simultaneous
exchange of XML data with one or more trading partners. We are looking
forward to implementing the new XJParser with its improved performance and
are confident it will extend our capacity to integrate data from any
source."
     XJ **Parser** Feature Overview Extended functionality of XJ **Parser**
includes: **XML** 1.0 Standards Compliance with a complete set of W3C
interfaces to ensure interoperability with applications and web-based
technologies. Simple API for **XML** (SAX) 1.0 to optimize performance
parsing large documents utilizing an event-based API. Additional support
for third-party SAX drivers is also included. Integrated eXtensible
Stylesheet Language (XSL) processor providing seamless, integrated **XML**
parsing and transformation in one package. Supports and extends full **XML**
functionality in Microsoft Internet Explorer 5.0. **Validating** support for
DTD's and **XML   schema** to verify true and error-free **XML** data.
Exception and Error Handling to handle Java exceptions as well as trapping
errors for developer productivity.
     Advanced query language support through emerging W3C standards
support like data typing, XSL pattern matching, and node transformation.
Developers will also enjoy tremendous support with comprehensive
documentation, integrated sample libraries, technical support and host of
other benefits introduced in xDev DataChannel's new developers program.
     XJParser can be downloaded from DataChannel at
http://www.datachannel.com/xDev Introducing xDev
     DataChannel also announces the XML Developers Site, providing early
adopter developers direct access to leading edge XML resources from cutting
edge XML developers. To provide fellow developers with the best in tools,

techniques and tips, DataChannel is creating a web site highlighting the latest tools and expertise in the XML arena. DataChannel's one stop shop for XML knowledge will also include analysis & explanations of the latest W3C Standards and Proposals, discussion groups on the hottest topics, and the tools and technologies which simplify XML development. In addition, DataChannel will offer creative support and co-marketing arrangements to help developers leverage their ideas towards the advancement of XML and their professional growth. Many of these ideas contributed to the rich functionality of the new XJParser. These new offerings will be rolled out in xDev and are described on. The site will be operational May 15, 1999. Developers should take the opportunity today to download the XJParser and give DataChannel input on key elements of xDev and to extend the standardization and state-of-the-art of XML technology.

"We continue to push ourselves to remain the innovative leaders in the XML market space but we cannot do it alone. Our success is dependent upon the thousands of expert developers that understand this technology and know how to create real business solutions with it. Although we will lead the way, the true value of xDev comes from the sharing of ideas and technology amongst the XML development community. We are committed to creating a world class forum that can bring together the greatest minds and ideas in the XML world," said Tim Gelinas, vice president of development who will oversee the xDev program.

Overview of DataChannel's XML Framework

DataChannel's XML Framework is an extensive portfolio of enterprise solutions designed to capitalize on the Information Economy through the use of the Extensible Mark-up Language (XML). This XML Framework creates universal access to mission-critical structured information as well as the ever-increasing amount of unstructured data.

About DataChannel, Inc.

DataChannel Inc., founded in 1996, is a privately held company. It is a value-added integrator of XML-based, market-leading Information Management solutions and services that facilitate the way companies share information with employees, vendors, customers, and consumers across intranets, extranets and the Internet. These solutions are offered through DataChannel's XML Framework, an extensive portfolio of enterprise solutions designed to capitalize on the Information Economy through the use of the Extensible Markup Language (XML). It includes RIO, an Enterprise Information Portal solution connecting users of the portal to relevant information sources. DataChannel simplifies the process of delivering critical information to the right people at the right time.

PUBLISHER NAME: M2 Communications
COMPANY NAMES: *DataChannel Inc.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372680   (Internet Software)
INDUSTRY NAMES: BUSN (Any type of business); INTL   (Business,
   International)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)

(USE FORMAT 7 FOR FULLTEXT)
DATACHANNEL: DataChannel releases the most advanced XML   parser **XJParser and introduces xDev program.**
TEXT:
M2 PRESSWIRE-19 April 1999-DATACHANNEL: DataChannel releases the most advanced **XML   parser** XJParser and introduces xDev its XML developers program (C)1994-99 M2 COMMUNICATIONS LTD
...   with significant improvements in performance. XJParser becomes the industry's most complete, reliable, and innovative **XML   parser** for delivering powerful, server-based enterprise applications utilizing open web-standards. DataChannel's joint development...

...and are confident it will extend our capacity to integrate data from any source."

XJ **Parser** Feature Overview Extended functionality of XJ **Parser** includes: **XML** 1.0 Standards Compliance with a complete set of W3C interfaces to ensure interoperability with applications and web-based technologies. Simple API for **XML** (SAX) 1.0 to optimize performance parsing large documents utilizing an event-based API. Additional...

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?ds

?t s9/5,k/1-10

9/5,K/1   (Item 1 from file: 9)
DIALOG(R)File   9:Business & Industry(R)
(c) 2003 Resp. DB Svcs. All rts. reserv.

02018645 (USE FORMAT 7 OR 9 FOR FULLTEXT)
First XML Tools Hit Market
(Microsoft unveiled its XML strategy indicating that the language will be
  key to its Web application strategy)
InternetWeek, p 8
December 15, 1997
DOCUMENT TYPE: Journal ISSN: 0746-8121 (United States)
LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 878

ABSTRACT:
Future prospects collided with real-world developments on the Extensible
Markup Language (**XML**) front, as the spec for the emerging language moved
closer to a standard and vendors released some of the first **XML** tools.
Microsoft has positioned the language as a key element in its Web
application strategy. The Society of Automotive Engineers and the
Telecommunications Industry Forum announced plans to define an **XML** -based
vocabulary for describing its industry-standard data. That represents one
of the first major corporate end-user commitments to **XML** . At a recent
conference, Microsoft pushed with renewed vigor the existing **XML** support
in Internet Explorer 4.0, which includes an **XML** **parser** , support for the
 XML Object Model and **XML** Data Source Object, which brings **XML** into
the world of IE 4.0 data-binding. Microsoft's Office team also said it
would use **XML** -along with standard HTML-to help solve the format
compatibility that has plagued the Office suite through each subsequent
upgrade. Microsoft rival Netscape has been focused on using **XML** to solve
the so-called info-glut problem, describing the use of the **XML** -based
Resource Description Framework (RDF) as a key meta-data component for
describing and cataloging various types of content as part of its
next-generation client, code-named Aurora. Meanwhile, several vendors
shipped or announced some of the first **XML** tools: DataChannel Inc
announced the availability of the DataChannel **XML** Development Environment
(DXDE), including two **XML** **parsers** , viewers for **XML** and CDF (Channel
Definition Format) content, and an **XML** server that supports a database
schema for managing and distributing meta-data. Poet Software Corp
unveiled an SGML/ **XML** object database repository that is currently in beta
and due to ship in the first quarter. SoftQuad Inc. announced a new Live
Database Pages (LDP) feature for its HoTMetaL Pro 4.0 authoring tool, which
can use **XML** as a description language for returned database queries.
ArborText Inc previewed Cedar, its **XML** style sheet technology, which it
proposed as a potential W3C standard in September along with Microsoft.
Adobe Systems Corp said it would add support for **XML** next year as part of
its update to its FrameMaker 5.5 and FrameMaker+SGML 5.5 publishing.
Perspecta Inc announced support for **XML** within its Perspecta SmartContent
System information warehousing platform. Chrystal Software added **XML**
support to its Astoria content management platform, which, up to now, has
been used to manage content created from most popular SGML editors.

TEXT:

COMPANY NAMES: ARBORTEXT INC; DATACHANNEL; MICROSOFT CORP; NETSCAPE
   COMMUNICATIONS CORP; POET SOFTWARE CORP; SOFTQUAD INC
INDUSTRY NAMES: Software
PRODUCT NAMES: Development support software packages (737224)
CONCEPT TERMS: All product and service information; Product development;
   Product introduction
GEOGRAPHIC NAMES: North America (NOAX); United States (USA)

 (USE FORMAT 7 OR 9 FOR FULLTEXT)

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XML and CDF (Channel Definition Format) content, and an **XML** server that
supports a database **schema** for managing and distributing meta-data.

A beta version of DXDE is available now for...

 9/5,K/2 **(Item 1 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)

ABSTRACT: Informix plans to rely on standards, especially the Extensive

Markup Language (XML), to help stake out territory in a database market fast becoming the exclusive domain of industry giants. Following last month's introduction of its Internet Foundation 2000 database, Informix's first foray into XML support, the company now is expanding that message with plans to incorporate XML across its entire product line.

COMPANY NAMES:
Informix Corp (DUNS:16-087-0648)
GEOGRAPHIC NAMES: US

DESCRIPTORS: Software industry; Data base management systems; Market
    strategy; Extensible Markup Language
CLASSIFICATION CODES: 9190 (CN=United States); 8302 (CN=Software and
    computer services); 7000 (CN=Marketing)

...TEXT: format.

An early developer's release of the capability, which is open to any Java-
 XML **parser** and integrates **XML** with pre-existing database **schemas** ,
will be available online later this year through the Informix Developers
Network.

Further down the...

 9/5,K/3   (Item 2 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01784429   04-35420
                 USE FORMAT 9 FOR FULL TEXT
An XML framework for agent-based e-commerce
Glushko, Robert J; Tenenbaum, Jay M; Meltzer, Bart
Communications of the ACM   v42n3   PP: 106-109+   Mar 1999   ISSN: 0001-0782
JRNL CODE: ACM
DOC TYPE: Journal article   LANGUAGE: English   LENGTH: 8 Pages
SPECIAL FEATURE: Charts References
WORD COUNT: 3967

ABSTRACT: CommerceNet's eCo system initiative, launched in 1996, aims to transform the World Wide Web into an agent-based infrastructure for Internet commerce. Today's Web gives people unprecedented access to online information and services. But its information is delivered in format-oriented, handcrafted hypertext markup language, making it understandable only through human eyes. Software agents and search engines have difficulty using the information because it is not semantically encoded. Tomorrow's Web will use the extensible markup language to encode information and services with meaningful structure and semantics that computers can readily understand. In Internet commerce, companies will use XML documents for publishing everything from product catalogs and airline schedules to stock reports and bank statements.

DESCRIPTORS: Intelligent agent; Electronic commerce; Hypertext;
    Applications; Document delivery; World Wide Web
CLASSIFICATION CODES: 5250 (CN=Telecommunications systems)

...TEXT: XML for integration extends beyond the Web to email, database records, and programming APIs. An **XML** **parser** imposes the same API on any XML data source, eliminating much of the need for... commerce applications and facilitate their interoperation.

When creating CBL, we found it helpful to extend **XML** with a **schema** language. The extensions add strong typing to **XML** elements so content can be readily **validated** . For example, an element called CPU...

... integer with a set of valid values: 100, 133, 166, 200, 233, 266 Mhz.

The **schema** language also adds class-subclass hierarchies, so information
is readily instantiated from class definitions. A...

... battery life. These and other extensions facilitate data entry, as well
as automated translations between **XML** and traditional object-oriented and
relational data models.

Trading partners not only have to agree...

... Following the service definition in Figure 4, when a company submits a
purchase order, the **XML** **parser** in the eCo server uses the purchase
order DTD po . dtd to transform the purchase...

9/5,K/4   (Item 3 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

01777415 04-28406
                    USE FORMAT 9 FOR FULL TEXT
Microsoft tools offering more support for XML
Kiely, Don
Informationweek n720 PP: 84-90 Feb 8, 1999 ISSN: 8750-6874 JRNL CODE:
IWK
DOC TYPE: Journal article LANGUAGE: English LENGTH: 4 Pages
SPECIAL FEATURE: Diagrams
WORD COUNT: 1610

ABSTRACT: Internet Explorer was the first product to use Microsoft's
Extensible Markup Language (**XML**) dynamic link library and to make
those features available to outside developers. Now, Microsoft has
introduced an updated MSXML.DLL. Besides closer adherence to the various
approved and proposed standards, the new version of MSXML has a number of
features that make it easier for developers to create applications that use
XML . The latest release includes searching capabilities to support
complex queries of **XML** data. New **schema** features allow aggregation of
existing **schemas** into more complex **schemas** . They support XSL for
formatting data, but also support a default style sheet to display data
when no XSL file is specified. The core enabling technology in MSXML is the
XML **parser** , which Microsoft has released in beta form in C++ and Java.
The **parser** is the means by which developers access **XML** 's object model.
The **XML** **parser** reads the data in an **XML** document and makes its
components available through the **XML** object model or through data-binding
features.

COMPANY NAMES:
Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)   ·
GEOGRAPHIC NAMES: US

DESCRIPTORS: Extensible Markup Language; Dynamic link libraries; Software
    upgrading
CLASSIFICATION CODES: 9190 (CN=United States); 9120 (CN=Product specific);
    5240 (CN=Software & systems)

ABSTRACT: Internet Explorer was the first product to use Microsoft's
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...TEXT: data when no XSL file is specified.

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The **XML** **parser** reads the data in an XML document and makes its components available through the XML...

9/5,K/5   (Item 4 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)

01750161 04-01152
                    USE FORMAT 9 FOR FULL TEXT
XML-Java combo continues to interest vendors
Walsh, Jeff
InfoWorld v20n52/1 PP: 10 Dec 28, 1998/Jan 4, 1999 ISSN: 0199-6649
JRNL CODE: IFW
DOC TYPE: Journal article LANGUAGE: English   LENGTH: 1 Pages
WORD COUNT: 409

ABSTRACT: Ever since developers first introduced the Extensible Markup Language (XML) and Java to each other in early 1998, this pair has become the industry's hottest couple, making combined appearances in tools and applications with increasing regularity. These days, more and more industry heavyweights - including Microsoft, DataChannel, IBM, and Lotus - are pairing up the 2 technologies. Microsoft and DataChannel in late December 1998 announced the 2nd beta release of their co-developed **XML** **parser** written in Java.

COMPANY NAMES:
DataChannel Inc
IBM Corp (DUNS:00-136-8083 TICKER:IBM)
Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)
Lotus Development Corp (DUNS:01-185-0484 TICKER:LOTS)
GEOGRAPHIC NAMES: US

DESCRIPTORS: Java; Product development; Programming languages;
   Manycompanies; Product testing; Extensible Markup Language
CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)
   ; 7500 (CN=Product planning & development)

...ABSTRACT: and DataChannel in late December 1998 announced the 2nd beta release of their co-developed **XML** **parser** written in Java.
...TEXT: Microsoft and DataChannel in late December announced the second beta release of their co-developed **XML** **parser** written in Java. And IBM and Lotus delivered the LotusXSL processor, which includes the Extensible ...

... The XQL support allows querying of information within an XML document, the officials said.

The **parser** also fully supports the W3C's Document Object Model recommended proposal, in addition to **XML** **schemas**, which define the elements within an **XML** data set. The **parser** can also run on the server to enable passing data across disparate servers and platforms...

9/5,K/6   (Item 5 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)

01664858 03-15848

XML stakes out Web future
Piven, Joshua
Computer Technology Review v18n6 PP: 1, 44+ Jun 1998 ISSN: 0278-9647
JRNL CODE: CTN
DOC TYPE: Journal article LANGUAGE: English   LENGTH: 3 Pages
WORD COUNT: 1401

ABSTRACT: Extensible Markup Language (XML) is the future of the Web,
although how distant a future at this point is an open question. XML is not
really a programming language but rather a metalanguage: it is a language
used to describe languages. XML 1.0 was recommended as a standard by the
W3C in February. XML's basic premise is that information should be based on
the data it uses, not in the way that data is displayed - as is the case
with HTML. Tags can be defined within a document itself, rather than only
in the base language specification. And the tags can be used to define any
type of information. It provides a way to organize and present highly
complex and specially formatted information in a standard way.

DESCRIPTORS: Internet; Programming languages; Hypertext
CLASSIFICATION CODES: 5240 (CN=Software & systems); 8302 (CN=Software and
    computer services)

...TEXT: the rules of an XML document, including element names, element
combinations, and the element attributes.

 Schemas   also   provide   an   improved   method   of   making   **XML** -based data
self-describing   to   applications   that   don't   already   contain   built-in
descriptions of the data.   **XML** -Data also provides a mechanism by which
developers can further specify characteristics about particular elements.
This allows developers to augment **schemas** with additional information
such as data types, inheritance, **validation** and presentation rules. In
essence, it is a way to make **XML** more object-oriented so that developers
have a standard way to augment **XML** data.

XML Tools

Both Microsoft and Netscape Communications Corp. are heavily involved in
XML development...

... Conference '98 in Seattle, a number of companies introduced XML tools,
and there are several **XML** **parsers** that have recently become available,
some of which can be downloaded for free (for non...

... for Java (www.alphaworks.ibm.com/ formula/xml), Norbert Mikula's NXP, a
Java-based **XML** **parser** (www. edu.uniklu.ac.at/~nmikula/ NXP), Tim Bray's
Java-based Lark, (www.textuality...add support in the next revision," Patel
says. "But the problem will be how the **XML** **parsers** [in the browsers]
will implement XML support."

For instance, Microsoft has said that they will...

 9/5,K/7   (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

01584230 02-35219
DataChannel's betas support XML standard
Walsh, Jeff
InfoWorld v20n7 PP: 20 Feb 16, 1998 ISSN: 0199-6649 JRNL CODE: IFW
DOC TYPE: Journal article LANGUAGE: English   LENGTH: 1 Pages
WORD COUNT: 270

ABSTRACT: DataChannel Inc. delivered 2 beta products last week. The beta
release of DataChannel **XML** **Parser** 1.0 is a Java-based **XML** **parser**

that enables server-side XML parsing and integration. The beta release of ChannelManager 2.0 combines an open API and multiple client support to provide enterprises with a tool that integrates legacy databases, document-management systems, new feeds, PC applications, URLs, and e-mail into a functional intranet.

COMPANY NAMES:
DataChannel Inc
GEOGRAPHIC NAMES: US

DESCRIPTORS: Product testing; Software packages; Computer upgrading;
    Computer programming; Systems integration
CLASSIFICATION CODES: 9190 (CN=United States); 9000 (CN=Short Article);
    7500 (CN=Product planning & development); 5240 (CN=Software & systems)

ABSTRACT: DataChannel Inc. delivered 2 beta products last week. The beta release of DataChannel **XML Parser** 1.0 is a Java-based **XML parser** that enables server-side XML parsing and integration. The beta release of ChannelManager 2.0...
...TEXT: 0 specification as a standard. (See related article, page 54.)

The beta release of DataChannel **XML Parser** 1.0 is a Java-based **XML parser** that enables server-side XML parsing and integration. Application developers can use the parser to make their applications XML-aware by importing XML data into their data structure.

The DataChannel **XML Parser** is part of the DataChannel **XML** Developer Toolkit, which will be available this quarter and also includes the Pax Syntactica, a lightweight **XML parser** ; the DataChannel **XML** Viewer, an applet that uses the Pax Syntactica **parser** to enable users to walk and view **XML** tree data; the **XML** Server, a server that supports a database **schema** for managing and distributing meta data; and a CDF Viewer demo, a preview of the...

 9/5,K/8   (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06852429   Supplier Number: 58049605 (USE FORMAT 7 FOR FULLTEXT)
Sun Microsystems Leads Industry Effort to Simplify XML Development.
PR Newswire, p6237
Dec 7, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1114
PUBLISHER NAME: PR Newswire Association, Inc.
COMPANY NAMES: *Sun Microsystems Inc.
PRODUCT NAMES: *3573000   (Computers & Peripherals)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 3571 (Electronic computers)
NAICS CODES: 334111 (Electronic Computer Manufacturing)
TICKER SYMBOLS: SUNW
SPECIAL FEATURES: LOB; COMPANY

...   JAXP provides a standard way for a Java platform-based application to plug in any **XML** -conformant **parser** . While the reference implementation uses Sun's experimental high performing Java Project X as its default **XML parser** , the software's pluggable architecture allows any **XML** - conformant **parser** to be used, such as the **xml** .apache.org **XML parser** , code named Xerces. (For information on this community project to which Sun donated technology, please...

...announced the expert group of industry leaders within the JCP that is working to create **XML** Data Binding software for the Java 2 platform. This project, code-named Project Adelard, will enable developers to deliver and maintain high-performance **XML** -enabled applications with a minimum of

development effort. Project Adelard provides a two-way mapping between **XML** documents and Java-based objects along with a **schema** compiler tool. The compiler will automatically generate Java classes from **XML** **schemas** without requiring developers to write any complex parsing code. In addition, the compiler will contain automatic error and **validity** of checking of **XML** messages, helping to ensure that only valid, error-free messages are accepted and processed by...

...developers be able to more easily develop and process Java technology-based applications that leverage **XML** , but enterprises will also lower costs through more productive development.
     As with JAXP, Project Adelard...

 9/5,K/9   (Item 2 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06851217   Supplier Number: 58043047   (USE FORMAT 7 FOR FULLTEXT)
Architag International Corp. Announces xRay, a New XML Editor.
Business Wire, p0585
Dec 6, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 400
PUBLISHER NAME: Business Wire
COMPANY NAMES: *Architag International; XRAY
PRODUCT NAMES: *3843000   (Dental Equipment & Supplies)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 3843 (Dental equipment and supplies)
NAICS CODES: 339114 (Dental Equipment and Supplies Manufacturing)
SPECIAL FEATURES: LOB; COMPANY

...   tool that allows users and developers to look inside their XML documents the way the **XML** **parser** does." The product's speed means that it can also be used by professional keyboarders...

...windows can be displayed, each containing its own XML document.
     xRay works with well-formed **XML** documents, but also **validates** according to different types of **schemas** . "One of the breakthroughs in xRay is the ability to create and modify a document type definition (DTD) **schema** , but also create and **validate** against **XML** Data, a **schema** submission to the W3C," said Travis. "xRay is also the first **XML** editor that verifies rich datatypes, like numbers and dates, against the **XML** Data **schema** ."
     XML is a specification owned by the World Wide Web Consortium. XML can be used...

 9/5,K/10   (Item 3 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

06813274   Supplier Number: 57598835   (USE FORMAT 7 FOR FULLTEXT)
Apache Software Foundation launches XML open-source project.(Industry Trend or Event)
Messmer, Ellen
Network World, pNA
Nov 15, 1999
ISSN: 0887-7661
Language: English   Record Type: Fulltext
Document Type: Tabloid; Trade
Word Count: 496
PUBLISHER NAME: Network World, Inc.
COMPANY NAMES: *International Business Machines Corp.
EVENT NAMES: *600 (Market information - general)
GEOGRAPHIC NAMES: *1USA (United States)

PRODUCT NAMES: *7372000 (Computer Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office Automation)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: LOB; COMPANY

The Apache Software Foundation is making **XML** **parsers** and document conversion tools from several vendors, including IBM and Sun, available for free at **xml** .apache.org so that customers can use them to build in-house applications or commercial products. The main purpose is to promote interoperability in **XML** data exchange as the World Wide Web Consortium (W3C) continues to work on new standards, such as **XML** **Schema** , which is part of the **XML** standards suite, IBM says.

IBM is making two of its **XML** **parsers** available at the Apache site "to bring about the best possible innovation from the open...

...a proprietary approach to XML, which lets programmers generate format-neutral documents using tools, including **XML** **parsers** , for conversion to HTML, EDI or database formats.

"Microsoft has been pressuring us to do...

...Java or the C programming language, respectively.
- Sun's Java Project X and its XHMTL **Parser** , for generating **XML** , a r reformulated HTML 4.0 in XML 1.0, and now a W3C draft...

?t s11/5,k/1-29

01956127 46593053
                    USE FORMAT 9 FOR FULL TEXT
DSML helps directories work together
Hay, Todd
Network World v16n47 PP: 47 Nov 22, 1999 ISSN: 0887-7661 JRNL CODE:
NWW
DOC TYPE: Periodical; Commentary LANGUAGE: English RECORD TYPE: Fulltext
   LENGTH: 1 Pages
SPECIAL FEATURE: Chart
WORD COUNT: 616

ABSTRACT: Directories are being enabled to operate across corporate
boundaries, pointing users to services wherever they exist. To accomplish
this work, directories need to be able to speak a common language. Enter
Directory Services Markup Language (DSML), the emerging standard that
expresses directory content in XML. DSML defines the XML schema for
describing   directory   structure   and   data. Applications consume DSML
documents as they would XML because DSML is a subset of XML. Applications
can transmit DSML documents to other DSML-enabled applications on the
Internet. This process effectively extends the Lightweight Directory Access
Protocol across firewalls to any Internet transport protocol.
GEOGRAPHIC NAMES: United States; US

DESCRIPTORS: Network directories; Extensible Markup Language; Standards;
   Interoperability; Electronic commerce
CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)
   ; 5250 (CN=Telecommunications systems)
PRINT MEDIA ID: 15378

...TEXT: World Wide Web Consortium and the BizTalk initiative - is being
pushed by Bowstreet Software, IBM, **Microsoft** , Novell, Oracle and the
Sun-Netscape Alliance. DSML defines the XML schema for describing directory
...

...third language both directories speak, XML.

A real-life DSML transaction might begin with an **XML** -enabled application
making an HTTP request to a Web service that queries a directory through
LDAP or directory APIs. The resulting DSML document (containing directory
data) is returned to the **XML** application over the Web.The application
then **parses** the **XML** using standard Extensible Stylesheet Language to
integrate the directory data into a purchase order form, for example,
within the application. With DSML, an **XML** application could request data
and **schema** information from directories and consolidate this into one
document.

To DSML-enable their directories, network...

01877263 05-28255
                    USE FORMAT 9 FOR FULL TEXT
BizTalk could spur XML and e-business
Kiely, Don
Informationweek n749 PP: 74-76 Aug 23, 1999 ISSN: 8750-6874
JRNL CODE: IWK
DOC TYPE: Journal article LANGUAGE: English   LENGTH: 2 Pages
WORD COUNT: 1541

ABSTRACT: To further capitalize on the growing interest in **Extensible Markup** Language (**XML**), **Microsoft** Corp. in May 1999 introduced BizTalk , a design framework for **XML** . The current version. 0.81, consists of 4 documents: BizTalk Framework **XML** Tag Specification, BizTalk Framework Document Design Guide, **XML** **Schema** Developer's Guide, and a guide t a scheme canonical format. **Microsoft** makes clear that **XML** , not BizTalk, is the specification. So while **XML** provided the structure, BizTalk provides the dialects and dictionaries to make sense of the content. BizTalk data is shared among applications. Version 0.81 of the specifications contains 3 major elements: the framework description, a repository for BizTalk **schemas** , and requirements for submitting **schemas** to automated **validation** bots.
COMPANY NAMES:
 Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)
GEOGRAPHIC NAMES: US

DESCRIPTORS: Extensible Markup Language; Specifications; Electronic mail
    systems
CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)
    ; 9120 (CN=Product specific)

ABSTRACT: To further capitalize on the growing interest in **Extensible Markup** Language (**XML**), **Microsoft** Corp. in May 1999 introduced BizTalk , a design framework for **XML** . The current version. 0.81, consists of 4 documents: BizTalk Framework **XML** Tag Specification, BizTalk Framework Document Design Guide, **XML** **Schema** Developer's Guide, and a guide t a scheme canonical format. **Microsoft** makes clear that **XML** , not BizTalk, is the specification. So while **XML** provided the structure, BizTalk provides the dialects and dictionaries to make sense of the content...

... 81 of the specifications contains 3 major elements: the framework description, a repository for BizTalk **schemas** , and requirements for submitting **schemas** to automated **validation** bots.
TEXT: Headnote:
 Microsoft makes big investment in latest XML framework

BizTalk, **Microsoft** 's new electronic-commerce framework for XML schemas, attempts to provide flexible data exchange between...

... for all members of that industry, such as auto manufacturers, building contractors, or clothing wholesalers.

 Microsoft is strongly behind XML, as demonstrated by the addition of native data support to develop...

... result, XML documents are a native format in the Internet Explorer 5.0 Web browser. **Microsoft** also serves on the World Wide Web Consortium's XML standard committee.

To further capitalize on the growing interest in XML, **Microsoft** in May introduced BizTalk, a design framework for XML. By developing an XML schema under...

... Design Guide, XML Schema Developer's Guide, and a guide to a schema canonical format.
 Microsoft makes clear that XML, not BizTalk, is the specification. So while XML provides the structure...

... processes, particularly those that cross application or organizational boundaries. As such, it fits nicely into **Microsoft** 's Windows DNA architecture for widely distributed applications, providing the means tor exchanging data, particularly...

...connection, using any communication protocols available.

In addition to XML standardization, business is clearly driving **Microsoft**

's interest in BizTalk-in particular, the BizTalk Server. Slated to ship sometime after Windows...

... reliable transport of XML data. BizTalk Server and schemas go hand in hand. Crucial to **Microsoft** 's continued growth in servers is the ability to let customers exchange data with partners, a key part of its E-commerce initiatives.

As they do with other **Microsoft** servers, developers can write software to interact with BizTalk Server and manipulate document routing, security, and other features according to tags marking content. **Microsoft** certainly has something to gain from the success of XML and the BizTalk initiative-but...

...HTML documents, all opening tags must have a corresponding closing tag.

Messaging transport systemssuch as **Microsoft** 's own Message Queue, released with the Windows NT 4.0 Option Pack and a...

... DTDs. It describes data types and supports the XML namespaces specification. XMLData was proposed by **Microsoft** and ...kind of data specification for XML is likely to be adopted by the W3C, and **Microsoft** has pledged to support the final specification.

Automated Validation

All of the work developing a...

... is still missing a few complete features, such as message sequencing, security, and privacy protections.

Microsoft has set up a steering committee-not a standards body, it emphasizes-consisting of customers...
... building an information repository for XML schemas, both BizTalk and otherwise, at www.XML.org.

Microsoft and Oasis, as well as other industry stakeholders in XML's success, claim BizTalk and Oasis do not compete, particularly because **Microsoft** is going after only schemas that comply with the BizTalk specification and Oasis is open to anyone who takes the time to develop a valid DTD. In fact, **Microsoft** recently became a member of Oasis, but has so far deferred making the recommended $100,000 contribution to the development and operation of XML.org.

Server sales are spurring **Microsoft** to do all of this work developing specifications and automating a repository for the good...

... is it trying to define new standards, other than those submitted to the W3C. And **Microsoft** even promises to publish the XML schema and message formats used by Office and BackOffice. With **Microsoft** 's clout behind it, there's a good chance both XML and BizTalk will benefit.

Sidebar:

Microsoft 's XML Design Framework
Some of BizTalk's main features and benefits:

Defines a framework...
COMPANY NAMES:
Microsoft Corp...

11/5,K/3   **(Item 3 from file: 15)**

01852946 05-03938
                    USE FORMAT 9 FOR FULL TEXT

Working to bring effective E-Commerce standards into the energy industry with BizTalk
Manikundalam, Ravi
Oil & Gas Journal Windows in Energy Supplement PP: 27 Summer 1999
ISSN: 0030-1388 JRNL CODE: OGJ
DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages
WORD COUNT: 549

ABSTRACT: The BizTalk framework builds upon industry standards like **XML**
 and **XML** - **Schema** . Its objectives are to enable higher levels of
semantically **validatable** information exchange, design reuse of
information models and process models, and provide interoperability between
 XML -based solutions.

DESCRIPTORS: Electronic commerce; Standards; Interoperability; Petroleum
   industry
CLASSIFICATION CODES: 5250 (CN=Telecommunications systems); 8510
   (CN=Petroleum industry); 9000 (CN=Short Article)
ABSTRACT: The BizTalk framework builds upon industry standards like **XML**
 and **XML** - **Schema** . Its objectives are to enable higher levels of
semantically **validatable** information exchange, design reuse of
information models and process models, and provide interoperability between
 XML -based solutions.
...TEXT: be summed up in one word: BizTalk.

The BizTalk Framework builds upon industry standards like **XML** and **XML** -
 Schema . Its objectives are to enable higher levels of semantically
 validatable information exchange, design reuse of information models and
process models, and provide interoperability between **XML** -based solutions.

The BizTalk Framework will be first seen as a set of modeling, design...

... application-to-application or business-to-business information
interchange protocol specification.

A set of Tools **Microsoft** is developing is targeted at enabling
distributed collaborative development of information models and interchange
agreements between applications and/or trading partners. Finally, the
BizTalk Server **Microsoft** is developing is targeted at enabling middleware
and transport-neutral, secure, scalable information interchange between...

 11/5,K/4   **(Item 4 from file: 15)**
DIALOG(R)File 15:ABI/Inform(R)
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01687725 03-38715
                    USE FORMAT 9 FOR FULL TEXT
DCDs to help in building three-tier Web XML apps
Walsh, Jeff
InfoWorld v20n34 PP: 50 Aug 24, 1998 ISSN: 0199-6649 JRNL CODE: IFW
DOC TYPE: Journal article LANGUAGE: English LENGTH: 1 Pages
SPECIAL FEATURE: Charts
WORD COUNT: 373

ABSTRACT: **Microsoft** Corp. and IBM have submitted Extensible Markup
Language (XML) Document Content Descriptions (DCD) to the World Wide Web
Consortium. DCDs provide similar functionality to Document Type
Definitions, which XML initially inherited from its Standard Generalized
Markup Language roots. However, DCDs further support other XML-friendly
standards, such as Resource Description Framework.

COMPANY NAMES:
 Microsoft Corp (DUNS:08-146-6849 TICKER:MSFT)
IBM CorpDUNS:00-136-8083 TICKER:IBM
GEOGRAPHIC NAMES: US

DESCRIPTORS: Standardization; Web sites; Programming languages
CLASSIFICATION CODES: 9190 (CN=United States); 5240 (CN=Software & systems)
; 7500 (CN=Product planning & development)

ABSTRACT: **Microsoft** Corp. and IBM have submitted Extensible Markup
Language (XML) Document Content Descriptions (DCD) to the...
TEXT: **MICROSOFT** AND IBM have submitted a proposal to the World Wide Web
Consortium (W3C) for describing...

...Framework, XML-Data and XML Namespaces. (See chart, below.)

DCDs are also written in an **XML** syntax, unlike DTDs. This enables a
common markup language for both the DCD and the **XML** **schema** it
represents, but also the same **parser** can be used for both the DCD and the
XML data.

According to **Microsoft** , DCDs will be necessary for any developers looking
to build three-tier Web applications using...

... provides that a DTD does not," said David Wascha, product manager for
platform marketing at **Microsoft** .

Wascha noted that DCDs have support for database and programming style
prototypes. For example, in...

... whereas DTDs allow you to do very generic description of a document,"
Wascha said.
Neither **Microsoft** nor DCD coauthor Tim Bray would go so far as to say
that DCD would...

... strong answer either way to that question would have rocks in their
head,' Bray said.

Microsoft Corp., in Redmond, Wash., can be reached at (425) 882-8080 or
http:1/www. **microsoft** .com. IBM, in Armonk, N.Y., can be reached at (914)
765-1900 or http...
COMPANY NAMES:
 Microsoft Corp...

 11/5,K/5   **(Item 1 from file: 16)**
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07380583   Supplier Number: 60301533 (USE FORMAT 7 FOR FULLTEXT)
Own Your Own Island.(Technology Tutorial)(Tutorial)
Anderson, Eric Binary
ENT, v4, n20, p16
Nov 17, 1999
ISSN: 1085-2395
Language: English   Record Type: Fulltext Abstract
Article Type: Tutorial
Document Type: Magazine/Journal; Professional
Word Count: 822

ABSTRACT:
 Microsoft Internet Explorer 5.0 lets Web developers create **XML** 'data
islands' that perform sophisticated data transformations. A data island is
an **XML** document with a unique identifier referenced or included within an
HTML page that stores a dynamic representation temporarily in the client
browser document model each time the page is **parsed** ; this scheme
eliminates the need to call a Web server every time the browser needs even
a small transformation. Basic code for creating a data island is presented.
Data islands can store information other than simple data, such as **schemas**
 and extensible style sheets, and can be used in a wide variety of
applications. They are often used to present query results with client-side
filtering and sorting. One problem is the lack of support for data islands

in browsers other than IE 5.0.
PUBLISHER NAME: Boucher Communications, Inc.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *4811529 (Online Services NEC)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation)
SIC CODES: 4822 (Telegraph & other communications)
NAICS CODES: 514191 (On-Line Information Services)
TRADE NAMES: **Microsoft** Internet Explorer 5.0 (Web browser)

ABSTRACT:
 Microsoft Internet Explorer 5.0 lets Web developers create **XML** 'data
islands' that perform sophisticated data transformations. A data island is
an **XML** document with a unique identifier referenced or included within an
HTML page that stores a dynamic representation temporarily in the client
browser document model each time the page is **parsed** ; this scheme
eliminates the need to call a Web server every time the browser needs...

...data island is presented. Data islands can store information other than
simple data, such as **schemas** and extensible style sheets, and can be used
in a wide variety of applications. They...
...   tag (less than)XML(greater than), but this tag will cause errors in
older browsers. **Microsoft** also supports an alternate syntax using the
familiar (less than)SCRIPT(greater than) tag, but...

...than)/XML(greater than)
      Data islands are not restricted to storing data, per se. Because **XML**
  schemas and extensible style sheets (XSL) are also described using **XML**
, you can create an archipelago that includes **schema** islands and layout
islands, as well. XSL can easily redefine the look of your data by
transforming a data island into HTML. **XML** **schemas** can be used to ensure
that data in an island follows a prescribed format. The...

...data islands and the document object model (DOM), you can create, read,
modify, transform, and **validate** data with little programming. Moreover,
all this work can be done without a roundtrip to...

...data islands is the specialty grammar Vector Markup Language
(VML)proposed by AutoDesk, Hewlett-Packard, **Microsoft** , Macromedia, and
Visio. VML allows embedding high-quality vector drawings within a Web page.
      I...
TRADE NAMES: **Microsoft** Internet Explorer 5.0 (Web browser)

 11/5,K/6   **(Item 2 from file: 16)**
DIALOG(R)File 16:Gale Group PROMT(R)
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07052885   Supplier Number: 58378494 (USE FORMAT 7 FOR FULLTEXT)
**SoftQuad's XMetaL: XML Word Processing Comes into Focus.(Product
  Announcement)**
Alschuler, Liora
The Seybold Report on Internet Publishing, v3, n11, pNA
July, 1999
ISSN: 1090-4808
Language: English   Record Type: Fulltext
Article Type: Product Announcement
Document Type: Newsletter; Trade
Word Count: 3154
PUBLISHER NAME: Seybold Publications, Inc.
COMPANY NAMES: *SoftQuad Inc.
EVENT NAMES: *336 (Product introduction)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation); PUBL (Publishing)

NAICS CODES: 51121   (Software Publishers)
TRADE NAMES: XMetal (Web authoring software)
SPECIAL FEATURES: COMPANY
...   may have little or no training in XML. Another target is editorial
groups in which **Microsoft** Word is producing copy that will eventually be
converted to XML and will need to...the standard within the browser which,
at present, is a choice between grim and grimmer. **Microsoft** 's Internet
Explorer 5 supports fonts, bold, italic and colors, but not much else,
including...5, which will let you write your own tag names. Arbortext calls
this "free-form **XML** editing," and it will be in the next release of Epic
and ADEPT. Although it...

...writing, which is interesting coming in parallel with increased interest
in support for the W3C **Schema** activity. With **schemas** , SoftQuad will be
able to provide richer **validation** , including data types, which is closer
to the business logic that people are trying to...

11/5,K/7   (Item 3 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)
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06857356   Supplier Number: 58113549   (USE FORMAT 7 FOR FULLTEXT)
Extensibility's XMLschema.com Goes Live; New Site Provides Ubiquitous
  Support for Managing and Exchanging XML-Based E-Business Grammars.
Business Wire, p0600
Dec 9, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 671
PUBLISHER NAME: Business Wire
COMPANY NAMES: Extensibility Inc.; **Microsoft** Corp.
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY

...   management and exchange of e-business grammars.
      Initial services provided on the site include Extensibility **XML**
schema   **validation** and conversion services.
      "XML schemas are becoming the intellectual property of e-business,"
said Reid...

...and adoption of rules for information interchange."
      Current service offerings on the site include:
      -- Extensibility **Validation** Services: Users can test **XML**   **schemas**
  for
      syntactical validation and receive reports confirming validity or
      reporting errors.
      -- Extensibility Conversion Services: Users...

...schema dialects, enabling
      exchange of XML grammars across heterogeneous environments.
      Initially, XMLschema.com will support **Microsoft** 's XDR and BizTalk,
Commerce One's Common Business Library and SOX schema dialect, and Document
Type Definitions (DTDs).
      Microsoft 's BizTalk.org initiative leverages XMLschema.com to help
automate the posting of **validated**   **schemas** for the BizTalk framework.
"The BizTalk Framework aims to accelerate the adoption of **XML** with a set
of design guidelines that encourage the consistent development of **XML**
schemas ," said James Utzschneider, director of business frameworks for
Microsoft .
      "XMLschema.com hosts the first commercially available services to
provide schema validation and conversion services...

...XML schemas provide e-commerce applications contracts enabling
      certain transaction automation.
      About BizTalk
      Introduced by **Microsoft** (Nasdaq:MSFT) in March, the BizTalk
Framework makes it easy for businesses to exchange information...

...an XML schema and a set of XML tags used in messages sent between
applications.
      Microsoft , other software companies and industry standards bodies
will use the BizTalk Framework to produce XML...

...next generation e-business applications.
      Extensibility is a strategic partner with leading companies such as
Microsoft (MSFT; http://www. **microsoft** .com/), Commerce One (CMRC;
http://commerceone.com/), OneSoft (http://www.onesoft.com/), Quark
(http://www...
COMPANY NAMES: Extensibility Inc.; **Microsoft** Corp.

   11/5,K/8   (Item 4 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06853535   Supplier Number: 58061900 (USE FORMAT 7 FOR FULLTEXT)
DataChannel and Extensibility Partner to Advance XML Leadership;
  Extensibility to Support PML 1.0; DataChannel Extends Training.
Business Wire, p0571
Dec 7, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 724
PUBLISHER NAME: Business Wire
COMPANY NAMES: *DataChannel Inc.; Extensibility Inc.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372680   (Internet Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

...   exchange from disparate systems, differing schemas, and e-business
applications.
      Extensibility, the foremost authority on **XML Schema** management,
will create a **validated   schema** for DataChannel's Portal Markup Language
1.0. (PML 1.0). PML 1.0 has...

...first industry standard markup language for content display and
management by an Enterprise Information Portal.
      XML Authority (TM), Extensibility's unparalleled **schema**
processing and **validation** server will contain PML 1.0 support in its next
release.
      DataChannel will accelerate its...

...for our respective customers," said Lucie Fjeldstad, chief executive
officer, DataChannel Inc."Extensibility excels at **schema** processing and
we give customers a way to manage those **validated XML** documents with
our portal."
      "Our customers are developing some amazing applications with our
products. This...

...next generation e-business applications.
      Extensibility is a strategic partner with leading companies such as
Microsoft (MSFT; http://www. **microsoft** .com/), CommerceOne (CMRC;
http://commerceone.com/), OneSoft (http://www.onesoft.com/) and Quark
(www.quark...

06853060   Supplier Number: 58056576   (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **Announces Finalized BizTalk Framework.**
PR Newswire, p6679
Dec 7, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1367
PUBLISHER NAME: PR Newswire Association, Inc.
COMPANY NAMES: **Microsoft** Corp.
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUS (Business, General); .BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY

   (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **Announces Finalized BizTalk Framework.**
TEXT:
 Microsoft Teams With Customers, Partners and Industry Standards Bodies To
...   BizTalk Framework and Accelerate Adoption of XML-Enabled E-Commerce
     REDMOND, Wash., Dec. 7 /PRNewswire/ -- **Microsoft** Corp. (Nasdaq:
MSFT) today announced availability of the BizTalk(TM) Framework Document
Specification 1.0...

...framework based on Extensible Markup Language (XML) schemas and industry
standards for sharing information. The **Microsoft** (R) BizTalk Framework
provides specifications for the design and development of XML-based
solutions for...

...systems regardless of the platform, operating system or the underlying
technology of their existing systems.
     Microsoft   submitted the BizTalk Framework Document Specification
1.0 to the BizTalk Steering Committee -- composed of...

...of business today," said Charles Fitzgerald, director of business
development for the Developer Division at **Microsoft** . "Getting different
applications to 'talk' to each other is a major technical hurdle, which has
...

...and routing information. They act as an "envelope" for the business
information to be transmitted. **Microsoft** , other software companies and
industry-standard bodies will use the BizTalk Framework to produce XML...

...Technologies Inc., Data Interchange Standards Association (DISA), J.D.
Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft** , New Era of Networks
(NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp.,
RosettaNet...

...about the BizTalk Framework is available at http://www.biztalk.org/.
More information about the **Microsoft** BizTalk Framework initiatives is
available at http://www. **microsoft** .com/industry/biztalk/.
     About the BizTalk.Org Web Site
     The BizTalk.Org Web site serves as the online reference for the
BizTalk Framework specifications, **schemas** , reference materials, tools,
sample applications and a community newsgroup. The Web site is an open
repository for the submission and publication of **XML   schemas** , business
documents and messages expressed in **XML** . The **schemas** allow
organizations to exchange documents in generally understood business
terminology and integrate the data from...

...documents with their existing applications. In addition, the Web site

provides an updated submission and **schema** **validation** process. Users can freely use **XML** **schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema** . Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

About **Microsoft**

Founded in 1975, **Microsoft** is the worldwide leader in software for personal and business computing. The company offers a...

...to empower people through great software - any time, any place and on any device.

NOTE: **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein...

...chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework."

- Peter Hoversten

Senior Vice President for Product Strategy

New Era of Networks Inc that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications...

...a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/10   (Item 6 from file: 16)
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06807381   Supplier Number: 57569988   (USE FORMAT 7 FOR FULLTEXT)
Sun-Netscape Alliance Unveils Solutions for Developing Internet Trading Communities.
PR Newswire, p5245
Nov 15, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1342
PUBLISHER NAME: PR Newswire Association, Inc.
COMPANY NAMES: *Netscape Communications Corp.; Sun Microsystems Inc.
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *3573000   (Computers & Peripherals); 7372000   (Computer Software); 7372640   (Electronic Commerce Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 3571 (Electronic computers); 7372 (Prepackaged software)
NAICS CODES: 334111 (Electronic Computer Manufacturing); 51121 (Software Publishers)
TICKER SYMBOLS: NSCP; SUNW
SPECIAL FEATURES: LOB; COMPANY

...   to address these requirements.

The Alliance will leverage Edifecs Commerce's SpecBuilder product, the dominant **schema** -authoring suite in the market, to help enable customers to rapidly create new transaction sets for EDI, **XML** and other file formats that meet diverse trading partner requirements. Additionally the Alliance will use Edifecs Commerce's Message **Validation** technology, giving users the ability to verify compliance of their partner's data files' established **schemas** and message guidelines.

Leveraging technology from Receipt.com, the Alliance will deliver next generation authentication...on the industry's most widely available product platforms, including DEC, HP, IBM, Linux, SGI, **Microsoft** Windows, and Sun. The Alliance software product portfolio includes: messaging and calendar, collaboration, web, application...

06797788   Supplier Number: 57509703 (USE FORMAT 7 FOR FULLTEXT)
**Icon Information-Systems Announces Release of Version 3.0 of XML Spy
  Product.**
Business Wire, p0107
Nov 11, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 430
PUBLISHER NAME: Business Wire
COMPANY NAMES: *Icon Information Systems
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SPECIAL FEATURES: COMPANY

        Icon Information-Systems announces the release of version 3.0 of its
highly-acclaimed **XML** Spy product, which will be showcased at COMDEX, Las
Vegas, next week. **XML** Spy is a professional **validating**   **XML** editor
that lets you edit all **XML** , XSL, **Schema** , and DTD files and provides
four integrated views on the documents:
        -- The Enhanced Grid and...

...American Express, Andersen Consulting, Compaq, Dell, Ernst&Young,
Gateway, GTE, Hitachi, HP, IBM, JP Morgan, **Microsoft** , NTT, Oracle,
Siemens, Sony, and Toshiba.
        Version 3.0 includes a broad range of new...

06781596   Supplier Number: 57228078 (USE FORMAT 7 FOR FULLTEXT)
**Extensibility Continues to Rule the XML e-Business Vocabularies and Grammar
  Space; Releases XML Authority 1.1.**
Business Wire, p0001
Nov 4, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 469
PUBLISHER NAME: Business Wire
COMPANY NAMES: *Extensibility Inc.
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SPECIAL FEATURES: COMPANY

...   the use of XML schema to ensure the integrity of automated
transactions and information interchange.
        " **XML** Authority 1.1's support for all major **XML**   **schema** dialects
provides users much needed interoperability as **XML** becomes the mainstream
means for e-business content exchange," said Reid Conrad, president and CEO
of Extensibility. "We will soon be complementing **XML** Authority 1.1 with
automated Internet-based processors for e-business rules **validating** and
conversion."
        Major enhancements to XML Authority 1.1 include:
        --   Interoperability across all major schema dialects including DTDs,
            Microsoft
's XDR and BizTalk-compatible framework, Commerce One's
            SOX Versions 1 and 2, and...

...next generation e-business applications.
        Extensibility is a strategic partner with leading companies such as
Microsoft (MSFT; http://www. microsoft .com/), CommerceOne (CMRC;
http://commerceone.com/), OneSoft (http://www.onesoft.com/), Quark
(www.quark.com...

11/5,K/13   (Item 9 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06683117   Supplier Number: 55921992 (USE FORMAT 7 FOR FULLTEXT)
**aecXML Project Unites Broad Coalition; Committees on Two Continents Moving
  Forward at Rapid Pace, Continuing on the Work Initiated by Bentley.**
Business Wire, p1221
Sept 30, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 918
PUBLISHER NAME: Business Wire
COMPANY NAMES: **Microsoft** Corp.
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUS (Business, General); BUSN (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY

     Microsoft   Validates Importance of **XML   Schemas**
     Founding members of the aecXML Project today provided details
concerning the rapid progress being made...
...the aecXML Project occurred September 15, 1999, simultaneously in
Dallas, Texas and Reading, UK, via **Microsoft** 's satellite teleconference
facilities. Participants hailed the meeting as an unqualified success, and
were quick...

...representing every major type of organization in A/E/C, came to the
first meeting.
     Microsoft is indirectly involved in the establishment of aecXML
through its BizTalk initiative, a repository of a number of XML "dialects"
created by specific commercial interest groups.
     Microsoft president Steve Ballmer was quoted in the Wall Street
Journal on September 16th as saying...

...in on the fact that it was XML." The paper reported that Ballmer
announced that **Microsoft** is reorienting most of its software development
around XML.
     Since the first aecXML Project meeting...
COMPANY NAMES: **Microsoft** Corp.

11/5,K/14   (Item 10 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06653731   Supplier Number: 55819372 (USE FORMAT 7 FOR FULLTEXT)
 Microsoft 's **XML-based plan could slip on SOAP standard.**(Microsoft 's
  **Windows DNA 2000 Web authoring softtware, Simple Object Access
  Protocol)(Product Announcement)**
Coffee, Peter
PC Week, p1
Sept 20, 1999
ISSN: 0740-1604
Language: English   Record Type: Fulltext
Article Type: Product Announcement
Document Type: Magazine/Journal; Tabloid; General Trade
Word Count: 384
PUBLISHER NAME: Ziff-Davis Publishing Company
COMPANY NAMES: **Microsoft** Corp.
EVENT NAMES: *336 (Product introduction)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)

INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
    Automation)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: **Microsoft** Windows DNA 2000 (Web authoring software)
SPECIAL FEATURES: COMPANY

 (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **'s XML-based plan could slip on SOAP standard.**(Microsoft 's
   Windows DNA 2000 Web authoring softtware, Simple Object Access
   Protocol)(Product Announcement)
TEXT:
Buried beneath the hoopla of **Microsoft** Corp.'s Windows DNA 2000 debut
last week was an unsung XML-based protocol whose industry acceptance is
vital to **Microsoft** 's vision.
     Developers will have to make the usual choice, however, between taking
the fullest advantage of **Microsoft** 's interface standards and tools or
preserving their IT independence.
        Enterprise IT architects have reason for concern in the promise of
programmable interaction that isn't blocked by firewalls, which **Microsoft**
describes as the mission of its proposed Extensible·Markup Language-based
SOAP (Simple Object Access...

...as digital signing of service offers and requests, in any so potentially
promiscuous approach.
        If **Microsoft** fulfills its commitment to a Web-standard process for
SOAP, **Microsoft** will not enjoy a commanding advantage in SOAP-based
products and services but tools such...

...2000, will appar ently integrate SOAP to a high degree. The difference
between multivendor and **Microsoft** -only systems may turn out to be
analogous to that between raw SQL database access and access to server-
side stored procedures.
        XML data formats and algorithms, at the foundations of future
products, could let **Microsoft** retain the performance edge of all-
Microsoft IT suites without asking enterprise sites to resist the appeal
of vendor- neutral standards. But current **XML** **schemata** merely agree on
names for particular kinds of data so that collections from different
sources can be **parsed** by distributed logic on multiple tiers.
        SOAP (a draft specification, currently labeled Version 0.9...

...to piggyback a distributed object protocol on top of HTTP," in the words
of a **Microsoft** white paper released two weeks ago. SOAP requests and
responses would use HTTP and therefore...

...separate server port, which could be blocked by a firewall.
        SOAP messages are in what **Microsoft** Vice President Paul Maritz
called the "open, self-describing" format of XML, meaning that any...
...and any component architecture can play. Literally, this is likely to
prove the case.
        But **Microsoft** 's team is clearly already in training and at many
sites, **Microsoft** platforms and technologies will draw the lines on the
field. **Microsoft** is certainly not giving itself any handicap in the
contest.
COMPANY NAMES: **Microsoft** Corp.
TRADE NAMES: **Microsoft** Windows DNA 2000 (Web authoring software)

 11/5,K/15   (Item 11 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06538354   Supplier Number: 55349706 (USE FORMAT 7 FOR FULLTEXT)
Development & Integration.(Microsoft **'s BizTalk electronic commerce**
   platform)(Product Information)
ENT, v4, n13, p14
July 19, 1999
ISSN: 1085-2395

Language: English   Record Type: Fulltext Abstract
Document Type: Magazine/Journal; Professional
Word Count: 717

ABSTRACT:
 Microsoft launches its www.BizTalk.org in an effort to support its
emerging BizTalk Framework electronic commerce platform. BizTalk is touted
as a framework for application integration and electronic commerce, and has
as one of its principal goals the participation of companies in its **XML**
schema . The site will also provide an automated **validation** process to
ensure that a given company's **schema** is BizTalk compatible. BizTalk,
however, is concerned that vendors adopt the same method for describing
their semantics: using BizTalk tags and design parameters. The approach is
similar to convincing vendors to use the same programming language.
PUBLISHER NAME: Boucher Communications, Inc.
COMPANY NAMES: **Microsoft** Corp.
EVENT NAMES: *240   (Marketing procedures)
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *7372000   (Computer Software); 7372640   (Electronic
    Commerce Software)
INDUSTRY NAMES: BUSN   (Any type of business); CMPT   (Computers and Office
    Automation)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)
SPECIAL FEATURES: LOB; COMPANY
ADVERTISING CODES: 57   New Products/Services

Development & Integration.(Microsoft **'s BizTalk electronic commerce
    platform)(Product Information)**

ABSTRACT:
 Microsoft launches its www.BizTalk.org in an effort to support its
emerging BizTalk Framework electronic...

...commerce, and has as one of its principal goals the participation of
companies in its **XML**   **schema** . The site will also provide an automated
validation process to ensure that a given company's **schema** is BizTalk
compatible. BizTalk, however, is concerned that vendors adopt the same
method for describing...
...   up whole new worlds for software development." And now, due to some
recent announcements from **Microsoft** , you're probably thinking that I was
a hired straight man, setting up the pins so **Microsoft** could knock them
down. But I was framed! And the framework in question is **Microsoft** 's
BizTalk.
      Word about the BizTalk framework crept out of Redmond a few months
ago. Like some past **Microsoft** initiatives, notably DNA, BizTalk seemed to
be yet another high-concept marketing plan. My attempt...

...being depicted prominently on their architectural slides. Even after
PeopleSoft's integration manager met with **Microsoft** specifically about
BizTalk, Redmond provided neither a white paper nor a set of PowerPoint
slides...

...with using XML for business-to-business communication.
      With the launch of www.BizTalk.org, **Microsoft** has gone public with
some of its business-to-business concepts. The official word on...

...and electronic commerce. One of its key goals is to have participating
companies use consistent **XML**   **schema** . BizTalk will also provide a
clearinghouse, via its Web site, for public and private **XML**   **schemas** .
Public **schemas** will be available to anyone visiting the site, while
private **schemas** can be made available to specific trading partners. The
site will also provide an automated **validation** process to ensure your
schema is BizTalk compatible. A steering committee made up of the major
ERP vendors, e- commerce...

...BizTalk schemas, the schemas can be easily queried and mapped into

another vendor's format. **Microsoft** believes individual industries will eventually consolidate their schemas, but the success of BizTalk is not...

...standard XML uses a DTD to describe the valid tags and structure of a document. **Microsoft** , however, has ignored DTDs in favor of XML-Data, a specification currently under review by...

...a natural step toward unifying under XML for all data interchange on the Web.
 While **Microsoft** will undoubtedly provide its own suite of tools to leverage BizTalk schemas, the current proposal seems refreshingly free of Windows platform entanglements. **Microsoft** specifically grants permission for anyone to leverage any technology in the BizTalk 0.8 specification perpetually, without license. It seems **Microsoft** feels driving the specification will give them a comfortable advantage in developing BizTalk solutions.
 If...
COMPANY NAMES: **Microsoft** Corp.
TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

 11/5,K/16   (Item 12 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06504670   Supplier Number: 55221595 (USE FORMAT 7 FOR FULLTEXT)
Working to Bring Effective E-Commerce Standards into the Energy Industry
 With BizTalk.(using Microsoft **'s BizTalk Framework electronic commerce**
 software)
The Oil and Gas Journal, v97, n27, p27
July 5, 1999
ISSN: 0030-1388
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 548
PUBLISHER NAME: PennWell Publishing Co.
EVENT NAMES: *360 (Services information); 330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *4811520   (Online Services)
INDUSTRY NAMES: BUSN (Any type of business); OIL (Petroleum, Energy
 Resources and Mining)
NAICS CODES: 514191 (On-Line Information Services)
TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

Working to Bring Effective E-Commerce Standards into the Energy Industry
 With BizTalk.(using Microsoft **'s BizTalk Framework electronic commerce**
 software)
 ...   be summed up in one word: BizTalk.
 The BizTalk Framework builds upon industry standards like **XML** and
XML - **Schema** . Its objectives are to enable higher levels of semantically
validatable information exchange, design reuse of information models and
process models, and provide interoperability between **XML** -based solutions.
 The BizTalk Framework will be first seen as a set of modeling, design
 ...

...application-to-application or business-to-business information interchange protocol specification.
 A set of Tools **Microsoft** is developing is targeted at enabling distributed collaborative development of information models and interchange agreements between applications and/or trading partners. Finally, the Biz Talk Server **Microsoft** is developing is targeted at enabling middleware and transport-neutral, secure, scalable information interchange between...
TRADE NAMES: **Microsoft** BizTalk Framework (Electronic commerce software)

 11/5,K/17   (Item 13 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)

06477634   Supplier Number: 55111409   (USE FORMAT 7 FOR FULLTEXT)
Extensibility Announces First Commercial Product for BizTalk Framework Schema Validation; Extensibility to Provide Enhanced Schema Facilities for the BizTalk Framework.
Business Wire, p0003
July 9, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 631
PUBLISHER NAME: Business Wire
COMPANY NAMES: **Microsoft** Corp.
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *7372000   (Computer Software)
INDUSTRY NAMES: BUS (Business, General); BUSN   (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY

...   encourage the consistent development of XML schemas," said James
Utzschneider, director of business frameworks for **Microsoft** .
    "Extensibility's XML Authority will facilitate this goal by providing
migration tools that customers can...

...officer, "existing schema formats such as DTDs, can easily be ported to
the BizTalk Framework."
    XML Authority 1.1 is the first commercial product to provide
schema   validation for the BizTalk framework. "This will enable users to
get started now in developing BizTalk Framework compatible applications,"
Conrad added. "Developers who want to publish for **schemas** in the
BizTalk.Org **schema** repository will be assured that their **schemas** meet
the BizTalk Framework specification."
    Extensibility is working with **Microsoft** on advanced facilities for
the publishing and access of valid BizTalk Framework schemas on the...

...efforts will ensure full implementation support with future products
compatible with the BizTalk Framework from **Microsoft** and Extensibility.
    "Our joint efforts will quickly enable the potential of XML and
schemas for...

...use trial version may also be downloaded from the Extensibility site.
    About BizTalk
    Introduced by **Microsoft**   (NASDAQ:MSFT) in March, the BizTalk
Framework makes it easy for businesses to exchange information...

...an XML schema and a set of XML tags used in messages sent between
applications.
    Microsoft , other software companies and industry standards bodies
will use the BizTalk Framework to produce XML...

...and is a member of the W3C Schema Working Group and OASIS.
    Note to Editors: **Microsoft** and BizTalk are trademarks of **Microsoft**
 Inc. Extensibility and XML Authority are trademarks of Extensibility Inc.
All others are properties of...
COMPANY NAMES: **Microsoft** Corp.

11/5,K/18   (Item 14 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)

06444651   Supplier Number: 55018320   (USE FORMAT 7 FOR FULLTEXT)
W3C Issues Associating Style Sheets with XML as a Recommendation; Allows XML to Leverage Display Power, Flexibility of CSS.
Business Wire, p1491

June 29, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 522
PUBLISHER NAME: Business Wire
INDUSTRY NAMES: BUS   (Business, General); BUSN   (Any type of business)

...   of the W3C's XML and CSS recommendations," explained James Clark,
editor of the specification.
        Microsoft , Netscape, Opera Software, and SoftQuad have products
that support the new recommendation. Other vendors have...

...to develop technologies that will allow developers to place the style
sheet link outside the **XML** document itself in ways that are extensible,
self-documenting, and that can be **validated** . "We can now concentrate on
developing a more sophisticated mechanism that takes advantage of ongoing
W3C work in metadata, **schemas** , and linking," Clark added.
        About the World Wide Web Consortium (W3C)
        The W3C was created...

 11/5,K/19   **(Item 15 from file: 16)**
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06359843   Supplier Number: 54700973 (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **and Commerce One to Collaborate on Key XML Technologies To**
  Accelerate Business-to-Business Electronic Commerce .
PR Newswire, p6232
May 24, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1174
PUBLISHER NAME: PR Newswire Association, Inc.
COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.
GEOGRAPHIC NAMES: *1USA   (United States)
PRODUCT NAMES: *7372000   (Computer Software); 7372640   (Electronic
   Commerce Software)
INDUSTRY NAMES: BUS   (Business, General); BUSN   (Any type of business)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: LOB; COMPANY

 Microsoft **and Commerce One to Collaborate on Key XML Technologies To**
  Accelerate Business-to-Business Electronic...
...   Increase Interoperability Between Businesses
      DALLAS, May 24 /PRNewswire/ -- Building on a two-year strategic
alliance, **Microsoft** Corp. and Commerce One(R) Inc., a leading provider of
electronic commerce solutions, today announced...

...by enabling greater interoperability between trading partners. As part
of today's news, delivered at **Microsoft** 's Tech*Ed 99 conference, the
Common Business Library (CBL), a public collection of XML...

...the Commerce Chain Solution by Commerce One will support the BizTalk
Framework. As a result, **Microsoft** 's and Commerce One's customers and
trading partners will be able to easily exchange...

...marketplace portal, including Commerce One MarketSite.net in North
America.
        "We believe this collaboration with **Microsoft** will greatly expand
participation in MarketSite.net and other MarketSite trading communities
around the world...

...our long-standing strategic relationship with Commerce One," said Paul
Maritz, group vice president of **Microsoft** 's Developer Group. "Leveraging

Commerce One's XML expertise and its Common Business Library will...
...to create and translate their business documents."
     To accelerate the process of developing BizTalk Framework **schemas** ,
Commerce One MarketSite and CBL will support **XML** -Data Reduced (XDR), the
current syntax used for the BizTalk Framework, in addition to **Schema** for
Object Oriented **XML** (SOX). XDR and SOX are **XML** -based **schema** languages
that have been submitted to the World Wide Web Consortium (W3C) and will
support the W3C **schema** specification when it becomes widely available.
Both languages provide the rich software data representations needed to
classify, search, **validate** , map and dynamically interpret e-commerce
business documents. E-commerce applications that support XDR and SOX will
be able to use BizTalk Framework **schemas** to develop trading relationships
with any organization that supports **schema** from the BizTalk.Org
repository.
     "We strongly believe that a common business language is critical...

...an XML schema and a set of XML tags used in messages sent between
applications. **Microsoft** , other software companies and industry standards
bodies will use the BizTalk Framework to produce XML...

...information about the BizTalk Framework is available at
http://www.biztalk.org/. More information about **Microsoft** 's BizTalk
Framework initiatives is available at http://www. **microsoft**
.com/industry/biztalk/.
     About CommerceOne
     Commerce One is a leading provider of electronic commerce solutions
...or via the Internet at http://www.commerceone.com/ or
http://www.marketsite.net/.
     About **Microsoft**
     Founded in 1975, **Microsoft** (Nasdaq: MSFT) is the worldwide leader
in software for personal computers. The company offers a...

...enjoyable for people to take advantage of the full power of personal
computing every day.
     Microsoft and BizTalk are either registered trademarks or
trademarks of **Microsoft** Corp. in the United States and/or other
countries. Commerce One, Commerce Chain, BuySite, BuySite...
COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.

 11/5,K/20   (Item 16 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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06307282   Supplier Number: 54521313   (USE FORMAT 7 FOR FULLTEXT)
XML: A Language For Embedded Internet.
CHILD, JEFF
Electronic Design, v47, n9, p20(1)
May 3, 1999
ISSN: 0013-4872
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 645
PUBLISHER NAME: Penton Publishing, Inc.
COMPANY NAMES: **Microsoft** Corp.
EVENT NAMES: *336 (Product introduction)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372680   (Internet Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation); ELEC (Electronics)
NAICS CODES: 51121 (Software Publishers)
SPECIAL FEATURES: COMPANY

...   you, the first exposure you had to XML was in March of this year,
when **Microsoft** released Internet Explorer 5.0, the company's first
XML-compatible browser. And, odds are...

...it into other applications.

Each data field is defined by a string of numbers that **XML** -enabled applications understand to equal a document type, a particular field, or some form of data that can be used by the receiving application. Through this markup **schema** , an **XML** -enabled application receiving an **XML** transmission can **parse** the data received and retag or reorder it for presentation in the format expected by...

COMPANY NAMES: **Microsoft** Corp.

11/5,K/21   (Item 17 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)
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06235790   Supplier Number: 54285219   (USE FORMAT 7 FOR FULLTEXT)
NCompass Resolution: Content Management and Workflow for Mid-range Sites.(Software Review)(Evaluation)
McKenzie, Matthew
The Seybold Report on Internet Publishing, v3, n7, pNA(1)
March, 1999
ISSN: 1090-4808
Language: English   Record Type: Fulltext
Article Type: Evaluation
Document Type: Newsletter; Trade
Word Count: 3522
PUBLISHER NAME: Seybold Publications, Inc.
COMPANY NAMES: *NCompass Labs Inc.
EVENT NAMES: *350 (Product standards, safety, & recalls)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
  Automation); PUBL (Publishing)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: NCompass Labs Resolution 2.0 (Web authoring software)
SPECIAL FEATURES: COMPANY

...   around a three-tier architecture that consists of a desktop client, a server (which uses **Microsoft** 's Internet Information Server for HTTP services) and a **Microsoft** SQL Server 6.5 relational database. In addition, beginning with Version 2, Resolution offers a...

...any Web authoring tool or HTML editor, including visual tools such as Macromedia Dreamweaver and **Microsoft** FrontPage, to create and edit templates. It can do this because all of the special...

...The placeholders, which appear as empty images within a visual Web authoring tool, are actually **Microsoft** Design Time Controls-small ActiveX applications that the designer can configure to control when and...these tools for each placeholder.)

* They can import formatted content, including text and tables, from **Microsoft** Word or Excel. (Resolution converts this formatted content to HTML using a set of **Microsoft** ActiveX controls; at this time, NCompass does not convert any other document formats.)

* They can...

...published pages on a Web site. (The term doesn't have anything to do with **Microsoft** 's "Active Desktop" channels or with any other push technology.) An author can post the...go without much additional fuss.

Pros and cons Seeing big-name players like Lotus and **Microsoft** zeroing in on the intranet market, NCompass is steering now toward external site development, with...

...a company can deploy Resolution across multiple departments within an organization.

Architecture. Resolution is a **Microsoft** -centric system, relying heavily on ActiveX and COM and providing native support for only one

database (**Microsoft** SQL Server 6.5), one Web server (**Microsoft** IIS),
one browser for preview (Internet Explorer) and one method of generating
dynamic pages (ASP). Clearly, this will appeal to all- **Microsoft** shops and
create some difficulty for those who choose a more open architecture. The
one...

...whistles or that see content management as but one complex module
interacting with many others.
        XML support. In its literature, NCompass talks the **XML** talk, but,
at this point at least, Resolution fails to walk the **XML** walk. The server
has no **XML** smarts; its use of an attribute tag in an HTML element has
nothing to do with well- formed or valid **XML** ; it merely serves as the
handle by which the server pulls resources from the database. In contrast
with DynaBase, for example, Resolution's server does not **parse** **XML** to
recognize user-defined tags in context; it does not **validate** **XML** ; and
it does not use DTDs to create a **schema** . In the future, though, NCompass
does hope to add **XML** parsing and **validation** to its server. That step
would enable it to interact with **XML** -authoring tools and with other **XML**
-aware servers, such as content-syndication servers following the ICE
protocol.
        In conjunction with its...

...authoring tool that supports drag-and-drop.
        Application server: Windows NT Server application interacting with
Microsoft Internet Information Server 3 or 4 for HTTP services. Requires
Pentium 200 with 128 MB of RAM; 500 MB of free disk space.
        Database: **Microsoft** SQL Server 6.5; ODBC 3.0 or later. Oracle 8I
under development.
        Pricing Base...

 11/5,K/22   (Item 18 from file: 16)
DIALOG(R)File   16:Gale Group PROMT(R)
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06085918   Supplier Number: 53606641   (USE FORMAT 7 FOR FULLTEXT)
XML Pro 1.2: XML Pro: Coding the Future.(from Vervet Logic)(Software
   Review)(Evaluation)
Freund, Jim
Computer Shopper, v19, n2, p429(1)
Feb, 1999
ISSN: 0886-0556
Language: English   Record Type: Fulltext
Article Type: Evaluation
Document Type: Magazine/Journal; General Trade
Word Count: 987
PUBLISHER NAME: Ziff-Davis Publishing Company
COMPANY NAMES: *Vervet Logic
EVENT NAMES: *350 (Product standards, safety, & recalls)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372682   (Internet Server Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation)
NAICS CODES: 51121 (Software Publishers)
TRADE NAMES: XML Pro 1.2 (Web authoring software)
SPECIAL FEATURES: COMPANY
...   to-date on the latest Web trends, you know that the powers that be,
namely **Microsoft** Corp., Netscape Communications Corp., and the World Wide
Web Consortium (W3C), have determined that Extensible...

...online developers, but the current iteration is clearly not intended for
that audience.
        That said, **XML** Pro will benefit its experienced-developer audience
by providing **validation** of the syntax and by laying out the code in a
properly nested manner. It...

...create DTDs, which are themselves a changing standard, and it may well

be expanded with " **schemas** ." However, it will ensure that any DTDs you import or build are valid themselves. **XML** files with errors can still be opened by the program, which will then generate an...

...and nature of the error. Troublesome DTDs, on the other hand, cannot be opened, but **XML** Pro will specify where the problem exists.
XML Pro also allows you to work with...

11/5,K/23   (Item 19 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
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05920543   Supplier Number: 53153995 (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **in on XML Support.**
dot.COM, v5, n7, pNA
Oct 1, 1998
ISSN: 1077-3452
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 423
PUBLISHER NAME: Business Communications Company, Inc.
COMPANY NAMES: **Microsoft** Corp.
EVENT NAMES: *330 (Product information)
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372504   (Graphical User Interface Software)
INDUSTRY NAMES: BUSN (Any type of business); CMPT (Computers and Office
   Automation)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT
SPECIAL FEATURES: COMPANY

   (USE FORMAT 7 FOR FULLTEXT)
 Microsoft **in on XML Support.**
TEXT:
 Microsoft (One **Microsoft** WY., Bldg. 8, N. Office 2211, Redmond, WA
98052; Tel: 425/882-8080, Fax: 425/936-7329; Website: www. **microsoft** .com)
is actively involved in defining the emerging XML standard and will
continue to implement...

...World Wide Web technologies, including XML. A cofounder of the W3C's XML
Working Group, **Microsoft** enjoys broad support for its efforts from many
participants in the open W3C process.
      Microsoft will support the following key features in the next update
to the Windows operating system and its Internet Explorer browsing
software:
      * Direct viewing of **XML** . The **Microsoft**   **XML** implementation lets
users view **XML** using XSL or Cascading Style Sheets with their Web
browser, just as they view HTML documents. * High performance, **validating**
 XML engine. The **XML** engine familiar to Internet Explorer 4.0 developers
has been substantially enhanced and fully supports W3C **XML** 1.0 and **XML**
Namespaces, which lets developers qualify element names uniquely on the Web
and thus avoid conflicts between elements with the same name. Native **XML**
support in Windows means that developers can count on the full **XML**
processing capabilities being present to read and manipulate the data as
they move between their applications and components. * Extensible Style
Language (XSL) support. With the **Microsoft** XSL processor, based on the
latest W3C Working Draft, developers can apply style sheets to **XML** data
and display the data in a dynamic and flexible way that can be easily
customized. The querying capabilities of the **Microsoft** XSL processor also
allows developers to find and extract information within an **XML** data set
on the client or the server. * **XML**   **Schemas** . **Schemas** define the rules
of an **XML** document, including element names and rich data types, which
elements can appear in combination, and which attributes are available for
each element. In order to enable multitier applications, **Microsoft** will
be releasing a technology preview for **XML**   **schema** based on the **schema**
submissions to the W3C **XML** working group. * Server-side **XML** .

Server-side **XML** processing allows **XML** to be used as a standard means of
passing data between multiple distributed application servers-even across
operating system boundaries. * **XML** document object model (DOM). The DOM
is a standard object application programming interface that gives
developers programmatic control of **XML** document content, structure,
formats, and more. The **Microsoft** **XML** implementation includes full
support for the W3C **XML** DOM Recommendation and is accessible from script,
the Visual Basic(R) development system, C++, and...
COMPANY NAMES: **Microsoft** Corp.

 11/5,K/24   **(Item 1 from file: 275)**
DIALOG(R)File 275:Gale Group Computer DB(TM)
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02192901   SUPPLIER NUMBER: 20229291   (USE FORMAT 7 OR 9 FOR FULL TEXT)
SGML gets a new lease on life at DC conference. (GCA's SGML/XML '97
  conference) (includes related article on XML-data) (Industry Trend or
  Event)
Alexander, George
Seybold Report on Publishing Systems, v27, n9, p25(6)
Jan 19, 1998
ISSN: 0736-7260   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 6036   LINE COUNT: 00473

 SPECIAL FEATURES: photograph; illustration
 DESCRIPTORS: Trade Show Report; Publishing Industry Software; XML
 PRODUCT/INDUSTRY NAMES: 7372412 (Word Processing Software)
 SIC CODES: 7372 Prepackaged software
 FILE SEGMENT: CD File 275

...   Washington early in December was a celebration of the triumph of
XML. Powerful forces, including **Microsoft** and Netscape, have aligned
themselves behind XML, positioning it to play a much larger part...the IM.
The latest of these is Web support, demonstrated at the Washington show
using **Microsoft** 's Internet Explorer. Support for dealing with XML
documents across the Web is one of...

...the validation process.
    Two papers delivered back to back to an overflow crowd at SGML/ **XML**
'97 laid down the rationale for a new initiative to strengthen the
schemata against which **XML** documents will be **validated** . The new
initiative is known by the name of **XML** -Data following the proposal
"Specifications for **XML** -Data," written by Andrew Layman (**Microsoft**),
Jean Paoli (**Microsoft**), Steve DeRose (Inso) and Henry S. Thompson
(University of Edinburgh). See:
    http://www. **microsoft** .com/standards/xml/xmldata-f.htm.
    In line with the move to a stronger and more generic form of
validation , the term " **schema** " is often substituted for DTD, and, yes,
the literacy and grace of the authors of the **XML** -Data proposal dictate
use of the Latin plural **schemata** for DTDs.
    Francois Chahuneau, president of AIS Software, explained the two-fold
purpose of the...

...data schemata, is compelling.
    Thompson and others stressed that any change in the method of
validation must be approached with caution and that the first step should
be creation of a DTD for **schemata** so that new-style **schemata** can be
meta- **validated** against a DTD. In a related development, Eliot Kimber of
Isogen and coeditor of ISO...

...instructions to declare data attributes, making it possible to do
HyTime-style architectural forms in **XML** .
    Regardless of the exact form taken-whether as **XML** -Data, HyTime or
some yet-to-be-named mechanism-the extension of document **schemata** to
include stronger, new types of definition and **validation** in easily
understood syntax will stimulate experimentation and growth in the

application of structured markup...

11/5,K/25   (Item 1 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04503761   Supplier Number: 58087796   (THIS IS THE FULLTEXT)
**DATACHANNEL: DataChannel and Extensibility partner to advance XML
   leadership.**
M2 Presswire, pNA
Dec 8, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 787
TEXT:
 M2 PRESSWIRE-8 December 1999-DATACHANNEL: DataChannel and Extensibility
partner to advance XML leadership (C)1994-99 M2 COMMUNICATIONS LTD
     RDATE:071299
       * Extensibility to support PML 1.0
       * DataChannel Extends Training
       Philadelphia, PA -- XML '99 -- In a joint announcement from XML '99,
DataChannel and Extensibility have partnered to deliver advanced XML
industry solutions. The collaborative efforts from this alliance will help
businesses leverage existing information systems by synchronizing data
exchange from disparate systems, differing schemas, and e-business
applications.
       Extensibility, the foremost authority on **XML   Schema** management,
will create a **validated   schema** for DataChannel's Portal Markup Language
1.0. (PML 1.0). PML 1.0 has been submitted and accepted by the OASIS group
as the first industry standard markup language for content display and
management by an Enterprise Information Portal. **XML** Authority,
Extensibility's unparalleled **schema** processing and **validation** server
will contain PML 1.0 support in its next release. DataChannel will
accelerate its lead in providing **XML** training and solutions by becoming
the lead training partner for Extensibility, creating new curriculum and
certification for **XML** Authority as well as other company offerings. These
courses, along with other advanced tutorials from DataChannel will be will
be offered in both open-enrollment and customized training sessions,
available the first half of next year.
       Additionally, DataChannel will include an evaluation copy of XML
Authority in the SDK of its XML-based Enterprise Information Portal,
DataChannel Server 4.0 scheduled for first quarter of 2000. Coupling of the
two products will deliver the industry's most advanced XML tools, training,
support, and sample development allowing customers and partners to build
extensible, scalable, XML-based corporate portals. DataChannel will also
include XML Authority in its repertoire of offerings for schema design
services and portal implementation engagements.
       "We continue our commitment to providing our customers and partners
with the most advanced **XML** -based solutions in the industry. In the realm
of **XML   schema** management, Extensibility stands alone. We are extremely
fortunate that we are able to partner with them to extend our own
functionality as well as provide these services for our respective
customers", said Lucie Fjeldstad, CEO, DataChannel, Inc. "Extensibility
excels at **schema** processing and we give customers a way to manage those
validated   XML documents with our portal."
       "Our customers are developing some amazing applications with our
products. This agreement will provide them with additional training support
and extend our value with DataChannel's training and services capabilities.
They will enjoy advanced XML curriculum from one of the premier solutions
companies in the industry. We also will enable advance content management
capabilities by supporting DataChannel's portal markup language" commented
Reid Conrad, CEO Extensibility.
       As part of the agreement, Extensibility joins DataChannel's
XpertPartner Program. Other aspects of the agreement include joint
development efforts on future offerings that were not disclosed by the
companies.

About Extensibility, Inc.

Extensibility, Inc., (http://www.extensibility.com/) is the leading provider of enabling technologies for XML schemas.Thousands of organizations, including industry initiatives such as BizTalk (http://www.biztalk.com/), FpML (http://www.fpml.com/) and Acord (http://www.acord.com/) use XML Authority to build Internet-ready business and industry vocabularies for next generation e-business applications. Extensibility is a strategic partner with leading companies such as **Microsoft** (MSFT; http://www. **microsoft** .com/), CommerceOne (CMRC; http://commerceone.com/), OneSoft (http://www.onesoft.com/) and Quark (www.quark.com). Based in Chapel Hill, N.C., the company was founded in 1998 and is a member of the W3C Schema Working Group and OASIS.

About DataChannel

DataChannel advances the way the world does business by providing open-standards-based Internet solutions through its products, services and partners; ensuring that customers maximize the value of their information.

Privately held and founded in 1996, DataChannel, Inc. is an XML-based Enterprise Information Portal (EIP) Solutions company that unleashes enterprise information over the Internet, making it easier for employees, customers and partners to participate in your business. DataChannel's EIP Solutions Framework provides the building blocks for a solid e-business strategy. DataChannel Server 4.0, an XML-based portal server, provides a personalized and secure e-business interface, a core component of the Framework. The foundation of the Framework is the XML backbone, which extends your existing infrastructure by using XML to expose all enterprise information so that it can be accessed in a uniform manner to build dynamic Web-based applications. To learn more about DataChannel, visit the company's Website at http://www.datachannel.com.

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CONTACT: David Oboyski, Brodeur Porter Novelli Tel: +1 602 282 5425 e-mail: doboyski@brodeur.com Carl Andrews, DataChannel Tel: +1 425 974 4177 e-mail: carl@datachannel.com

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PUBLISHER NAME: M2 Communications Ltd.
COMPANY NAMES: *DataChannel Inc.; Extensibility Inc.
PRODUCT NAMES: *7372680   (Internet Software)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)

...   exchange from disparate systems, differing schemas, and e-business applications.

Extensibility, the foremost authority on **XML   Schema** management, will create a **validated   schema** for DataChannel's Portal Markup Language 1.0. (PML 1.0). PML 1.0 has markup language for content display and management by an Enterprise Information Portal. **XML** Authority, Extensibility's unparalleled **schema** processing and **validation** server will contain PML 1.0 support in its next release. DataChannel will accelerate its lead in providing **XML** training and solutions by becoming the lead training partner for Extensibility, creating new curriculum and certification for **XML** Authority as well as other company offerings. These courses, along with other advanced tutorials from...engagements.

"We continue our commitment to providing our customers and partners with the most advanced **XML** -based solutions in the industry. In the realm of **XML   schema** management, Extensibility stands alone. We are extremely fortunate that we are able to partner with...

...these services for our respective customers", said Lucie Fjeldstad, CEO, DataChannel, Inc. "Extensibility excels at **schema** processing and we give customers a way to manage those **validated   XML** documents with our portal."

"Our customers are developing some amazing applications with our

products. This...next generation e-business applications. Extensibility is
a strategic partner with leading companies such as **Microsoft** (MSFT;
http://www. **microsoft** .com/), CommerceOne (CMRC; http://commerceone.com/),
OneSoft (http://www.onesoft.com/) and Quark (www.quark...

11/5,K/26   (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04503616   Supplier Number: 58087646   (THIS IS THE FULLTEXT)
 MICROSOFT : Microsoft **announces finalized BizTalk framework.**
M2 Presswire, pNA
Dec 8, 1999
Language: English   Record Type: Fulltext
Document Type: Magazine/Journal; Trade
Word Count: 1393
TEXT:
M2 PRESSWIRE-8 December 1999- **MICROSOFT** : **Microsoft** announces finalized
BizTalk framework (C)1994-99 M2 COMMUNICATIONS LTD
      RDATE:061299
      * **Microsoft** Teams With Customers, Partners and Industry Standards
Bodies To Define BizTalk Framework and Accelerate Adoption of XML-Enabled
E-Commerce
      REDMOND, Wash. -- **Microsoft** Corp. today announced availability of
the BizTalk Framework Document Specification 1.0, an updated component of
the framework based on Extensible Markup Language (XML) schemas and
industry standards for sharing information. The **Microsoft** BizTalk
Framework provides specifications for the design and development of
XML-based solutions for communication between applications and
organizations by leveraging standard Internet technologies such as XML, XML
schema and MIME. This data-focused approach allows businesses to easily
exchange XML documents with online trading partners and internal systems
regardless of the platform, operating system or the underlying technology
of their existing systems.
      Microsoft submitted the BizTalk Framework Document Specification
1.0 to the BizTalk Steering Committee -- composed of industry-leading
vendors, standards bodies and corporate customers -- for review in
September. The committee finalized and published the document
specifications on the BizTalk.Org Web site (http://www.biztalk.org/), a
public online library of shared XML information, resources and business
document schema. Any individual or organization can access the
specifications and use them to implement e-commerce and application
integration solutions using the BizTalk Framework. With the final version
of the specification now available, corporate developers and independent
software developers can immediately embark on the development of
BizTalk-compatible applications.
      "Today's IT professional is faced with the double challenge of not
only integrating diverse applications, but doing so in a time frame
relevant to the pace of business today," said Charles Fitzgerald, director
of business development for the Developer Division at **Microsoft** . "Getting
different applications to 'talk' to each other is a major technical hurdle,
which has grown more visible as companies try to integrate e-commerce
applications with back- end systems and partners. The BizTalk Framework
helps speed the integration of applications within a single organization or
between trading partners over the Internet."
      About the BizTalk Framework
      First introduced in March 1999, the BizTalk Framework makes it easier
for businesses to exchange information between applications and conduct
business over the Internet with trading partners and customers. This has
been difficult in the past because of the lack of a single technical
vocabulary for describing business data and processes. The challenge exists
both across and within industries because no two businesses use data in
exactly the same way. The BizTalk Framework includes design specifications
for implementing business documents using XML schemas and a set of XML tags
that provide BizTalk-enabled applications with document handling and
routing information. They act as an "envelope" for the business information

to be transmitted. **Microsoft** , other software companies and industry-standard bodies will use the BizTalk Framework to produce XML schemas in a consistent manner to enable integration across industries and between business systems regardless of platform, operating system or underlying technology.

"The biggest hurdle in business-to-business electronic commerce is the ability to trade with companies that have disparate systems and infrastructures," said Andy Berti, chief technology officer at Intelisys Electronic Commerce Inc. "The BizTalk Framework is a remarkable step toward developing a more efficient information exchange platform that will facilitate the translation of information between extended purchasing communities. BizTalk truly capitalizes on the potential of Internet technologies by interpreting a broad spectrum of protocols."

The BizTalk Steering Committee provides guidance on the future direction of the BizTalk Framework and includes American Petroleum Institute, Ariba Inc., The Baan Co., The Boeing Co., Clarus Corp., CommerceOne Inc., Concur Technologies Inc., Data Interchange Standards Association (DISA), J.D. Edwards & Co., Merrill Lynch & Co. Inc., **Microsoft** , New Era of Networks (NEON), The Open Applications Group (OAG), PeopleSoft Inc., Pivotal Corp., RosettaNet and SAP AG. More information about the BizTalk Framework is available at http://www.biztalk.org/. More information about the **Microsoft** BizTalk Framework initiatives is available at http://www. **microsoft** .com/industry/biztalk/.

About the BizTalk.Org Web Site

The BizTalk.Org Web site serves as the online reference for the BizTalk Framework specifications, **schemas** , reference materials, tools, sample applications and a community newsgroup. The Web site is an open repository for the submission and publication of **XML** **schemas** , business documents and messages expressed in **XML** . The **schemas** allow organizations to exchange documents in generally understood business terminology and integrate the data from those documents with their existing applications. In addition, the Web site provides an updated submission and **schema** **validation** process. Users can freely use **XML** **schemas** from the BizTalk Web site within their applications, as long as the **schemas** are published for public use by the owner or author of the **schema** . Businesses also have the option of publishing the **schemas** in a secure area on the Web site for private use between trading partners.

About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader in software for personal and business computing. The company offers a wide range of products and services designed to empower people through great software -- any time, any place and on any device. **Microsoft** and BizTalk are either registered trademarks or trademarks of **Microsoft** Corp. in the United States and/or other countries. Other product and company names herein may be trademarks of their respective owners.

Support for BizTalk Framework From the Steering Committee Members

"The BizTalk Framework helps enable e-business and business-to-business integration in a heterogeneous environment. It enables the creation of partner and supply chain scenarios by providing a common XML-based dialogue. We are in full support of **Microsoft** BizTalk Framework." -- Peter Hoversten Senior Vice President for Product Strategy New Era of Networks Inc. (NEON)

"BizTalk is an important business-to-business e-commerce accelerator. The inclusion of cXML in BizTalk Framework 1.0 now provides business suppliers of all sizes with a friction-free link to some of the world's largest business buyers through the Ariba network." -- Dave Rome Vice President of Marketing Ariba

"Compaq's BusinessBus is enterprise application integration software for integrating applications and business processes. It offers an XML-compliant API that supports any XML schema, including **Microsoft** BizTalk Framework 1.0. Our BusinessBus software simplifies the integration of BizTalk and legacy applications on heterogenous platforms, giving customers a superior approach to business-to-business integration. XML documents from suppliers and external agents can be immediately integrated with the BusinessBus XML backbone without translation." -- Rob Starkey Director of Enterprise Application Integration Compaq Professional Services

"Concur is pleased to support the release of the BizTalk Framework

1.0 specification. Enabling businesses to securely send business documents and information from our workplace e-commerce solutions to partners via BizTalk accommodates those who wish to communicate and conduct business over the Internet. This is an important initiative in the growth and continued success of today's electronic commerce marketplace." -- Michael Hilton Chief Technology Officer Concur Technologies

"The biggest hurdle in business-to-business electronic commerce is the ability to trade with companies that have disparate systems and infrastructures. The BizTalk Framework 1.0 is a remarkable step toward developing a more efficient information exchange platform that will facilitate the translation of information between extended purchasing communities. BizTalk truly capitalizes on the potential of Internet technologies by interpreting a broad spectrum of protocols." -- Andy Berti Chief Technology Officer Intelisys Electronic Commerce

"We think the BizTalk Framework 1.0 advances the state of XML for customer's e-business and application integration challenges. Our customers want a single envelope for sending and managing XML-based messages and the BizTalk Framework is instrumental in making this happen." -- David Connelly President Open Applications Group

"As a proponent of standards-based e-business, as well as a leading member of the **Microsoft** ISV community, Pivotal enthusiastically endorses the BizTalk Framework 1.0. Our vision for personalized Internet Relationship Hubs, where corporate employees, business partners and customers converge to conduct commerce and manage relationships, will be greatly enhanced and facilitated as a result of this important initiative." -- Keith Wales CTO and Co-Founder Pivotal

"The BizTalk Framework 1.0 solves the issue of interface description in e-commerce. SAP AG has seen this vision come true, and we expect tremendous progress moving forward as part of this initiative. SAP is excited to support the BizTalk Framework 1.0 release, which will enable businesses to easily exchange information over the Internet in a standard way." -- Thomas Becker Development Manager of Business Process Technology SAP AG

PUBLISHER NAME: M2 Communications Ltd.
COMPANY NAMES: **Microsoft** Corp.
GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372000 (Computer Software)
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)
SIC CODES: 7372 (Prepackaged software)
NAICS CODES: 51121 (Software Publishers)
TICKER SYMBOLS: MSFT

(USE FORMAT 7 FOR FULLTEXT)
MICROSOFT : Microsoft **announces finalized BizTalk framework.**
TEXT:
M2 PRESSWIRE-8 December 1999- **MICROSOFT** : **Microsoft** announces finalized BizTalk framework (C)1994-99 M2 COMMUNICATIONS LTD
RDATE:061299
* **Microsoft** Teams With Customers, Partners and Industry Standards Bodies To Define BizTalk Framework and Accelerate Adoption of XML-Enabled E-Commerce
REDMOND, Wash. -- **Microsoft** Corp. today announced availability of the BizTalk Framework Document Specification 1.0, an updated component...

...framework based on Extensible Markup Language (XML) schemas and industry standards for sharing information. The **Microsoft** BizTalk Framework provides specifications for the design and development of XML-based solutions for communication...systems regardless of the platform, operating system or the underlying technology of their existing systems.
Microsoft submitted the BizTalk Framework Document Specification 1.0 to the BizTalk Steering Committee -- composed of...of business today," said Charles Fitzgerald, director of business development for the Developer

Division at **Microsoft** . "Getting different applications to 'talk' to each
other is a major technical hurdle, which has...and routing information.
They act as an "envelope" for the business information to be transmitted.
Microsoft , other software companies and industry-standard bodies will use
the BizTalk Framework to produce XML...Technologies Inc., Data Interchange
Standards Association (DISA), J.D. Edwards & Co., Merrill Lynch & Co. Inc.,
Microsoft , New Era of Networks (NEON), The Open Applications Group (OAG),
PeopleSoft Inc., Pivotal Corp., RosettaNet...

...about the BizTalk Framework is available at http://www.biztalk.org/.
More information about the **Microsoft** BizTalk Framework initiatives is
available at http://www. **microsoft** .com/industry/biztalk/.
        About the BizTalk.Org Web Site
        The BizTalk.Org Web site serves as the online reference for the
BizTalk Framework specifications, **schemas** , reference materials, tools,
sample applications and a community newsgroup. The Web site is an open
repository for the submission and publication of **XML** **schemas** , business
documents and messages expressed in **XML** . The **schemas** allow
organizations to exchange documents in generally understood business
terminology and integrate the data from...

...documents with their existing applications. In addition, the Web site
provides an updated submission and **schema** **validation** process. Users can
freely use **XML** **schemas** from the BizTalk Web site within their
applications, as long as the **schemas** are published for public use by the
owner or author of the **schema** . Businesses also have the option of
publishing the **schemas** in a secure area on the Web site for private use
between trading partners.
        About **Microsoft**
        Founded in 1975, **Microsoft** (Nasdaq "...designed to empower people
through great software -- any time, any place and on any device. **Microsoft**
 and BizTalk are either registered trademarks or trademarks of **Microsoft**
Corp. in the United States and/or other countries. Other product and
company names herein...chain scenarios by providing a' common XML-based
dialogue. We are in full support of **Microsoft** BizTalk Framework." --
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Microsoft ISV community, Pivotal enthusiastically endorses the BizTalk
Framework 1.0. Our vision for personalized Internet...
COMPANY NAMES: **Microsoft** Corp.

 11/5,K/27   (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04181953   Supplier Number: 54721501   (THIS IS THE FULLTEXT)
 MICROSOFT : Microsoft **and Commerce One collaborate on XML to accelerate**
  business-to-business e-commerce.
M2 Presswire, pNA
May 25, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1205
TEXT:
M2 PRESSWIRE-25 May 1999- **MICROSOFT** : **Microsoft** and Commerce One to
collaborate on key XML technologies to accelerate business-to-business
electronic commerce (C)1994-99 M2 COMMUNICATIONS LTD
       RDATE:240599
        * Commerce One Common Business Library and MarketSite XML Documents
To Enhance BizTalk Framework to Increase Interoperability Between
Businesses
        DALLAS -- Building on a two-year strategic alliance, **Microsoft**
Corp. and Commerce One Inc., a leading provider of electronic commerce

solutions, today announced a broad collaboration around the BizTalk Framework and XML technologies to accelerate business-to-business electronic commerce by enabling greater interoperability between trading partners. As part of today's news, delivered at **Microsoft** 's Tech Ed 99 conference, the Common Business Library (CBL), a public collection of XML document building blocks developed by Commerce One, and the Commerce One MarketSite-based business documents will be submitted into the BizTalk.Org schema repository. During today's executive keynote at Tech Ed 99, the Commerce Chain Solution by Commerce One, a leading electronic procurement solution, was demonstrated using CBL and BizTalk Framework schemas.

In addition, the Commerce Chain Solution by Commerce One will support the BizTalk Framework. As a result, **Microsoft** 's and Commerce One's customers and trading partners will be able to easily exchange business documents and integrate diverse e-commerce applications, making it easier for greater numbers of buying and selling organizations to participate in the Commerce One MarketSite. This interoperability between Commerce One and the BizTalk Framework will help customers avoid the high costs of custom integration and support for multiple document standards when establishing e-commerce relationships with trading partners.

The Commerce One MarketSite open marketplace platform will support any business document included in the BizTalk.Org repository, in addition to CBL-based documents. As a result, all BizTalk-enabled applications can interoperate with any MarketSite business-to-business marketplace portal, including Commerce One MarketSite.net in North America.

"We believe this collaboration with **Microsoft** will greatly expand participation in MarketSite.net and other MarketSite trading communities around the world, creating economies of scale for Commerce One customers and their trading partners," said Chuck Donchess, vice president of Marketing and Business Development for Commerce One. "Web-based marketplaces and trading communities based on nonproprietary XML environments, such as CBL, are critical to reducing the barriers to entry for all trading partners and driving maximum value to members of the marketplace." Commerce One is also a charter member of the BizTalk steering committee, a group of organizations that guides the development and direction of the BizTalk Framework and manages BizTalk.Org. (More information about the BizTalk steering committee can be found at http://www.biztalk.org/.)

"This collaboration expands our long-standing strategic relationship with Commerce One," said Paul Maritz, group vice president of **Microsoft** 's Developer Group. "Leveraging Commerce One's XML expertise and its Common Business Library will greatly accelerate adoption of electronic commerce by providing essential XML building blocks that can be used by all BizTalk supporters to create and translate their business documents."

To accelerate the process of developing BizTalk Framework **schemas** , Commerce One MarketSite and CBL will support **XML** -Data Reduced (XDR), the current syntax used for the BizTalk Framework, in addition to **Schema** for Object Oriented **XML** (SOX). XDR and SOX are **XML** -based **schema** languages that have been submitted to the World Wide Web Consortium (W3C) and will support the W3C **schema** specification when it becomes widely available. Both languages provide the rich software data representations needed to classify, search, **validate** , map and dynamically interpret e-commerce business documents. E-commerce applications that support XDR and SOX will be able to use BizTalk Framework **schemas** to develop trading relationships with any organization that supports **schema** from the BizTalk.Org repository. "We strongly believe that a common business language is critical to e-commerce interoperability," said Randy Whiting, president and CEO of CommerceNet, an industry consortium for companies using, promoting and building electronic commerce solutions on the Internet. "CommerceNet selected Commerce One CBL as the foundation for our **XML** interoperability framework, based on CBL's broad horizontal scope and careful analysis of numerous existing commerce standards. CBL has been deployed in several pilots including a major catalog interoperability pilot sponsored by the U.S. government's General Services Administration (GSA), one of the largest purchasing organizations in the world. We are very excited that CBL will be part of the BizTalk repository and hope this will move the industry closer to a common operating environment for e-commerce."

About Common Business Library

CBL was created two years ago by Commerce One with the realization that there will not be one standard for electronic commerce, but rather many standards. CBL alleviates this problem by providing a recommended set of XML building blocks, data elements, attributes and definitions that are common to many business domains, such as address, price, quantity, catalog and purchase order, which are used to create XML-based business documents. Reusing these components speeds the development of e-commerce standards and, more important, facilitates the interoperation of commerce applications. CBL provides a common semantic framework that unifies different industry standards such as Open Buying on the Internet (OBI) and Open Trading Protocol (OTP) for purchasing, enabling companies that subscribe to different protocols to still do business.

About the BizTalk Framework

Introduced in March, the BizTalk Framework makes it easy for businesses to exchange information between software applications and conduct business over the Internet with trading partners and customers. The BizTalk Framework includes a design framework for implementing an XML schema and a set of XML tags used in messages sent between applications. **Microsoft** , other software companies and industry standards bodies will use the BizTalk Framework to produce XML schemas in a consistent manner to enable integration across industries and between business systems, regardless of platform, operating system or underlying technology. More information about the BizTalk Framework is available at http://www.biztalk.org/. More information about **Microsoft** 's BizTalk Framework initiatives is available at http://www. **microsoft** .com/industry/biztalk/.

About CommerceOne

Commerce One is a leading provider of electronic commerce solutions that dynamically link buying and supplying organizations into real-time trading communities. The Commerce Chain Solution by Commerce One, comprising Commerce One BuySite and Commerce One MarketSite, enables companies to significantly reduce operational costs and increase efficiency by automating the entire indirect goods and services supply chain. As a result, enterprise organizations are able to realize a strategic competitive advantage as well as a rapid return on investment. Commerce One is located in Walnut Creek, Calif., and can be reached by phone at (800) 308-3838 or (925) 941-6000 or via the Internet at http://www.commerceone.com/ or http://www.marketsite.net/.

About **Microsoft**

Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader in software for personal computers. The company offers a wide range of products and services for business and personal use, each designed with the mission of making it easier and more enjoyable for people to take advantage of the full power of personal computing every day.

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GEOGRAPHIC NAMES: *1USA (United States)
PRODUCT NAMES: *7372000   (Computer Software); 7372640   (Electronic Commerce Software)
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TICKER SYMBOLS: MSFT

(USE FORMAT 7 FOR FULLTEXT)
MICROSOFT : Microsoft **and Commerce One collaborate on XML to accelerate business-to-business e-commerce.**

TEXT:
M2 PRESSWIRE-25 May 1999- **MICROSOFT** : **Microsoft** and Commerce One to
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electronic...
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...information about the BizTalk Framework is available at
http://www.biztalk.org/. More information about **Microsoft** 's BizTalk
Framework initiatives is available at http://www. **microsoft**
.com/industry/biztalk/.
About CommerceOne
Commerce One is a leading provider of electronic commerce solutions
...or via the Internet at http://www.commerceone.com/ or
http://www.marketsite.net/.
About **Microsoft**
Founded in 1975, **Microsoft** (Nasdaq "MSFT") is the worldwide leader
in software for personal computers. The company offers a...
COMPANY NAMES: Commerce One Inc.; **Microsoft** Corp.

WORLD WIDE WEB CONSORTIUM: World Wide Web Consortium releases first drafts of XML Schema specification.
M2 Presswire, pNA
May 25, 1999
Language: English   Record Type: Fulltext
Document Type: Newswire; Trade
Word Count: 1121
TEXT:
 M2 PRESSWIRE-25 May 1999-WORLD WIDE WEB CONSORTIUM: World Wide Web
Consortium releases first working drafts of XML Schema specification
(C)1994-99 M2 COMMUNICATIONS LTD
        RDATE:240599
        * W3C Members Collaborate to Improve and Standardize Needed
Technology
        Leading the Web to its full potential, the World Wide Web Consortium
(W3C) today releases the first public working drafts of the XML Schema
specification: XML Schema Part 1: Structures and XML Schema Part 2:
Datatypes. By publishing these working drafts at an early stage of the
design work, W3C is ensuring that the public can follow the XML Schema
design work, and that the final result can be widely accepted and adopted.
One part proposes facilities for associating datatypes with XML element
types and attributes; this will allow XML software to do a better job of
managing dates, numbers, and other special forms of information. The other
part of the specification proposes methods for describing the structure and
constraining the contents of XML documents. These drafts, which builds on
earlier work submitted to W3C by several vendor and user organizations, are
the first step in the development of a powerful, vendor-neutral format for
defining the rules that govern particular kinds of XML data.
        Industry-Wide Participation
        Current members of the W3C XML Schema Working Group are key industry
players in Web publishing, XML processing, and database management system.
In alphabetical order, they are: Adobe Systems, Agranat Systems, Arbortext,
University of Bristol, Calico Commerce, Commerce One, University of
Edinburgh, Extensibility, Graphic Communications Association, Health Level
Seven, HP, IBM, University of Illinois at Chicago, Inso, Lawrence Berkeley
National Laboratory, Lotus Development, Louisiana State University, Merrill
Lynch, **Microsoft** , Microstar, Object Design, Omnimark Technologies,
Oracle, SAP, SoftQuad, Software AG, Sybase, Vignette, Wall Data, and Xerox.
        Following W3C's practice, the XML Schema Working Group provides a
public mailing list for comments on the working drafts, in addition to the
feedback channels defined by the W3C Process. The address for comments is
given in the drafts themselves.
        The Web needs Richer Data
        Extensible Markup Language (XML) was originally designed for encoding
human-readable documents, but quickly attracted attention from groups
interested in electronic commerce, interchange of data from relational and
object-oriented databases, and other non-document applications. The
Resource Description Framework (RDF) was designed to integrate a variety of
web-based metadata activities including content ratings, search engine data
collection, and digital library collections. Many applications can benefit
from the development of schemas:
        Databases must, for example, communicate detailed information about
the legal values of particular fields in the data being exchanged.
Publishing and syndication services must be able to describe the properties
of headlines, news stories, thumbnail images, cross-references, etc. For
electronic commerce, schemas can be used to define business transactions
within markets and between parties, and to provide rules for validating
business documents.
        When XML is used to exchange technical information in a multi-vendor
environment, schemas will allow software to distinguish data governed by
industry-standard and vendor-specific schemas, and help applications know
when it is safe to ignore information they do not understand, and when they
must not do so. This means schemas may help make software more robust and
systems more able to change and adapt to evolving situations.
        Traditional document processing will also benefit from **XML   Schemas**
, because **schema** -aware document management systems will be better able to
guide authors and editors in the creation and maintenance of documents.

XML , in accordance with its origin, provides methods of expressing syntactic **validity** constraints on document content, without attempting any formal specification of the meaning of markup. RDF, starting from the problem of describing Web resources in general, has focused more on the semantics of metadata, and less on the syntax. One of the most important design challenges for the ongoing work on **XML Schemas** and RDF is to ensure that their approaches and data models converge.

What's new?

At present, rules about what kinds of information can appear in an XML document can be expressed only in the form of XML document type definitions (DTDs). DTDs use a special format to define the rules for using XML markup for different kinds of documents, but in practice there are some common rules that cannot be expressed at all in DTD form. XML Schemas are more powerful than DTDs, so they will be able to express some rules that DTDs cannot express. Even more important for many purposes is that XML schemas are themselves XML documents. Using XML as the document format for schemas, instead of using a special-purpose form as DTDs do, will allow users and developers of XML schemas to use standard XML tools, the same ones they use for other structured information, instead of having to shift to specialized tools for work on schemas. It will also remove some of the shroud of mystery that have traditionally made DTD development a black art. Any existing XML processor can read an XML schema; interchange will be easy.

Cooperation Promotes Widespread Adoption

The XML Schema Working Group began its work by attempting to clarify the scope of its work. Requirements and suggestions have been gathered and discussed; eventually, these were refined into a short requirements document, which outlines some of the core usage scenarios and assumptions that are governing the design of the XML Schema language.

The XML Schema work builds on existing W3C specifications and experience in XML and database fields. The intense work of preparing these drafts has harnessed the expertise of key players among the W3C Membership in the fields of document management, database management, and electronic commerce. The diversity of representation within the W3C working group helps ensure that XML Schemas will be an open, vendor-neutral format that content creators can easily use and depend upon for information interchange over the Web. The purpose of these publications is to encourage public comments and contributions. Further information on XML Schema work can be found in the XML Activity statement at http://www.w3.org/XML/Activity

About the World Wide Web Consortium [W3C]

The W3C was created to lead the Web to its full potential by developing common protocols that promote its evolution and ensure its interoperability. It is an international industry consortium jointly run by the MIT Laboratory for Computer Science (MIT LCS) in the USA, the National Institute for Research in Computer Science and Control (INRIA) in France and Keio University in Japan. Services provided by the Consortium include: a repository of information about the World Wide Web for developers and users, sample code implementations to embody and promote standards, and various prototype and sample applications to demonstrate use of new technology. To date, over 300 organizations are Members of the Consortium.

PUBLISHER NAME: M2 Communications
INDUSTRY NAMES: BUSN (Any type of business); INTL (Business, International)

... Illinois at Chicago, Inso, Lawrence Berkeley National Laboratory, Lotus Development, Louisiana State University, Merrill Lynch, **Microsoft** , Microstar, Object Design, Omnimark Technologies, Oracle, SAP, SoftQuad, Software AG, Sybase, Vignette, Wall Data, and...
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03838290   Supplier Number: 48339130   (THIS IS THE FULLTEXT)
W3C Recommends XML 1.0 Specification To Improve Document Delivery
Information & Interactive Services Report, v19, n5, pN/A
March 6, 1998
ISSN: 1059-731X
Language: English   Record Type: Fulltext
Document Type: Newsletter; Trade
Word Count: 938
TEXT:
By Jerry Ashworth, Associate Editor
Now that it has widespread industry support, the extensible markup
language (XML) should weave its way into Internet commerce, simplifying
document delivery to realize the Web's potential.
The World Wide Web Consortium (W3C), a 243-member organization created
to develop common protocols and promote the Internet's evolution, Feb. 11
released as a recommendation XML 1.0, a system for defining, validating and
sharing document formats on the Web. The recommendation provides that the
specification is stable, enhances Internet interoperability and has been
reviewed by W3C.
Created by a W3C working group that includes key companies such as
Hewlett-Packard Co., **Microsoft** Corp., Netscape Communications Corp. and
Sun Microsystems Inc., XML is a subset of the standard generalized markup
language (SGML), a 10-year-old international text processing standard.
While retaining SGML features such as vendor independence, user
extensibility, validation and human readability, XML is easier to
understand and can be processed by existing commercial and free tools.
The SGML is difficult to use because it requires computers to process
two documents - a real document and a document type definition (DTD), which
could be a template for a preferred document structure, Josef Dietl of the
W3C's Technologies and Society Domain, told ISR. W3C later recommended
hypertext markup language (HTML) 4.0, which allowed firms to present
information on the Internet easier, but did little to help electronic
commerce customers understand how to use that information, he said.
"Finally, XML unites the best from both branches - interoperability
across platforms, extensibility and the capability to be automatically
processed," Dietl said, adding that XML does not require a DTD. If "you
have an empty document when you start a Web editor, XML provides an empty
container for your favorite application [such as graphics, sound or
multimedia]. These are examples of the extensibility of XML."
XML More Automatable
XML also is more automatable than HTML, Dietl said. Although HTML
allows users to display information from a database on the Web, it was
difficult to interpret this information automatically. An intelligent agent
in XML, however, can scan Web pages not only for random key words, but the
context in which they are used. Web content providers can create special
tags to support agents.
"If, say, a vendor of screws would like to announce that he is talking
about a one-inch screw, in HTML he would have to make that up as a
headline, emphasized or, generally speaking, abuse some other tag to
express that fact," Dietl said. "In XML, he can simply define a new tag
`(length)' for that purpose - and an agent has a much better chance to
understand what is going on.... Maybe it will figure that it is not
particularly interested in the length of a screw, but it will still know
that there are other data objects that have the same field."

XML's user-extensibility, automatability and interoperability can allow "for the first time to create systems for documents with new characteristics," Dietl said. "There can be new user interface characteristics like in W3C's synchronized multimedia working group [where] sound, video and pictures to combine to shape new forms of `documents.' This allows for a new generation of content brought to and sold via the Web, new opportunities for advertising and contacting the audience," he told ISR.

XML also makes it possible for companies to transport rich descriptions of a spreadsheet to allow another party to automatically interpret the data in that spreadsheet, potentially providing a market for full-power, low-cost electronic data interchange (EDI) applications. "And unlike most current EDI implementations that are restricted to western character sets, W3C has prepared XML for international applications," Dietl added.

The specification primarily is intended to meet the requirements of large-scale Web content providers for industry- specific markup, vendor-neutral data exchange, media-independent publishing, one-on-one marketing, workflow management in collaborative authorizing environments, and the processing of Web documents by intelligent clients.

"XML is an open, human-readable format that does for data what Java does for programs," said Jon Bosak, online information technology architect for Sun Microsystems and chairman of the W3C XML working group. "Together, XML and Java provide a platform- and vendor-independent environment that liberates users from proprietary software and hardware architectures."

XML-Data Spec Proposed

In a related matter, four companies have submitted an XML- Data specification proposal for W3C review. The proposal, offered by **Microsoft** , ArborText Inc., DataChannel Inc. and Inso Corp., outlines more detailed capabilities for developers to describe and validate data, thus improving XML's ability to integrate data from multiple sources.

Features in the XML-Data specification include:

* An XML-based syntax for schemas, which define the rules of an XML document – including element names, which elements can appear in combination and which attributes are available for each element – and help make XML-based data self-describing to applications that do not already contain built-in descriptions of the data.

* A model for extending **XML** elements – to allow developers to specify characteristics about particular **XML** elements, allowing them to augment **schemas** with additional information such as data types, inheritance, **validation** and presentation rules.

For example, the XML-Data schema could specify that the data contained between (price) tags is a number and the data contained between (birth date) tags is a date. "XML brings to the Web an ability to model text and data more accurately and usefully than before," said Paul Grosso, vice president of research at ArborText. "We're excited about XML-Data because it offers strong data-typing abilities, which can increase XML's ability to capture the rich schematic information that databases can work with today."

W3C Communications, contact Kathryn Esplin, 617-258-0604, http://www.w3.org; ArborText, 313-997-0200, http://www.arbortext.com.

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...   Created by a W3C working group that includes key companies such as Hewlett-Packard Co., **Microsoft** Corp., Netscape Communications Corp. and Sun Microsystems Inc., XML is a subset of the standard...

...companies have submitted an XML- Data specification proposal for W3C review. The proposal, offered by **Microsoft** , ArborText Inc., DataChannel Inc. and Inso Corp., outlines more detailed capabilities for developers to describe...

...that do not already contain built-in descriptions of the data.

* A model for extending **XML** elements - to allow developers to
specify characteristics about particular **XML** elements, allowing them to
augment **schemas** with additional information such as data types,
inheritance, **validation** and presentation rules.
    For example, the XML-Data schema could specify that the data contained
...
?